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Union College Graduate Program

1991 - 1993

Commitment to Excellence

Barbourville, Kentucky

UNION COLLEGE
1991-93 Graduate Catalog

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TELEPHONE COMMUNICATION

A campus-wide network of telephones enables the caller to reach any administrative, staff or faculty office by dialing the central switchboard.

Central Switchboard ..... (606) 546-4151
Counselor, Pfeiffer Hall (Women's Residence) ..... (606) 546-3421
Counselor, Stevenson Hall (Men's Residence) ..... (606) 546-3659

Union College is accredited by the Southern Association of Colleges and Schools and by the Kentucky State Department of Education, and is approved by the University Senate of the Methodist Church.

It is the policy of Union College not to discriminate on the basis of sex, race, color, handicap, or national and ethnic origin in the admission of students or in its administration of educational programs, scholarships, loan programs, athletic participation, or other school-administered programs.

The college reserves the right to modify or change the curriculum, admission standards, course content, degree requirements, regulations, tuition or fees at any time without prior notice. The information in this catalog is not to be regarded as creating a binding contract between the student and the School. Failure to read this catalog does not excuse the student from the requirements and regulations described herein.

Welcome to Union College

DR. JACK C. PHILLIPS

We welcome and invite you to examine the Graduate Studies Program of Union College. Founded in 1879 by Barbourville citizens and purchased in 1886 by the Methodist Church, Union has as its chief mission, service to the Appalachian area of Southeastern Kentucky, Eastern Tennessee, and Southwestern Virginia.

With an enrollment of more than 1,000, including both graduate and undergraduate students, Union College is committed to academic excellence. The College offers the Bachelor of Arts, the Bachelor of Science, the Master of Arts in Education degrees, and Rank I Program, along with Associate of Arts degrees and several one- and two-year programs.

Located on the historic Cumberland Gap Parkway in Southeastern Kentucky, approximately 17 miles from I-75, Union is the first College in this tri-state area. There are now over 8,000 graduates, with over 3,000 having the Master of Arts in Education degree.

We are pleased that you are interested in our graduate program and as you peruse these pages, we hope you will like what you see. Should you wish to enter our College, we believe your experience will be a profitable and happy one.

Sincerely,

Jack C. Phillips
President

History of Union College

Union College was founded in 1879 by a group of progressive citizens of Barbourville who formed a stock company and secured the main part of the present campus. In 1880, the first building was formally opened on the site of what is now known as Centennial Hall.

The college was purchased by the Kentucky Conference of the Methodist Episcopal Church in 1886, and Daniel Stevenson was elected president of the reorganized institution. A major bequest from Mrs. Fanny Speed led to the construction of Speed Hall, Stevenson Hall, and Centennial Hall.

The college department was discontinued in 1908, and for eight years the institution was maintained as a junior college, an academy, and an elementary school. It became a *bona fide* college again in the presidency of Ezra T. Franklin, who inaugurated a program of development during which the Memorial Gymnasium and a home for the president were built. In 1927, the college was accredited by the University of Kentucky as a grade A four-year college.

President John O. Gross emphasized the improvement of the curriculum and the building of a strong faculty. In 1931, Union College was accredited by the University Senate of the Methodist Episcopal Church, and, in 1932, full accreditation was realized when it was made a member of the Southern Association of Colleges and Schools. The Board of Regents of the University of the State of New York placed Union on its accredited list in 1937.

In Conway Boatman's 21 years of leadership, the college achieved substantial progress in both its educational and plant improvement. Seven new buildings were completed and others were enlarged. The curriculum was expanded and endowment funds were increased.

Mahlon A. Miller was elected to the presidency in 1959 and served in this capacity until 1982. In 1960, a Master of Arts in Education degree program was introduced and plant expansion continued with the development of College Park, a faculty residential area, followed by the construction of additional student housing, a physical education building, and a student center. A science center was completed in 1973.

In response to the needs of graduate students, the college began to offer graduate classes in other communities in 1973. This program has since expanded to provide in-service teachers with extension courses in twelve or more communities throughout the region.

In 1975, the college initiated the Specialist in Education degree (Ed.S.) and Kentucky Rank I certification with the administrator's certificate. After seven years, the Ed.S. program was phased out; however, the Rank I program has continued to grow.

In 1979, Union celebrated its centennial year. A centennial campaign provided funds to renovate the Classroom building which was then re-named Centennial Hall.

In January of 1983, Jack C. Phillips became the 15th president of Union College. Under Dr. Phillips' leadership, a new $1.4-million library addition has been completed; intercollegiate football has been reinstated; and a new stadium and physical education annex/weight room have been added; playing fields have been developed; the student center renovated; and a new cafeteria built.

The college has always accepted a special mission to Appalachia, a commitment that is strengthened with unique academic programs based on regional characteristics, expanded student financial aid, student community service projects, and new career-oriented curricula. As the college moves into its second century, it is expanding and enriching its service to Appalachia while at the same time fulfilling the needs of the many students from other states and other countries who come to Union College for an education.

Graduate Studies Program

Purpose and Objectives

In 1990, the graduate studies program at Union College began its fourth decade of service. Following is a summary of the purposes, objectives, and long-range goals of the program.

Purpose

The Union College graduate studies program is designed primarily for in-service teachers in the mid-Appalachian region of Kentucky, Tennessee, and Virginia, although students are attracted from states ranging from New York to Florida and a few foreign countries.

Major factors which draw these students include a flexible program which fits the work schedule of teachers, a competent and dedicated faculty, a variety of areas of emphasis, and the individual attention available to each graduate student. A limited number of persons who do not have teaching or administrative certification enroll in the graduate studies program to broaden their background and their knowledge.

Rank II and Rank I programs which meet Kentucky certification standards for professional advancement are available as well as the traditional degree of Master of Arts in Education.

Objectives:

(1) To prepare teachers and school leaders for greater service through extension of those fields of study which result in improved classroom instruction, informed administration, and human understanding.
(2) To provide graduate study for those who seek an advanced degree beyond the baccalaureate program.
(3) To encourage the attainment of excellence in scholarship, the acquisition of special skills in the field of education, and to develop a sense of obligation to contribute to the intellectual, cultural, and economic growth of the community.
(4) To prepare students to think critically, to express themselves creatively, and to make independent and rational judgments.

Long-Range Goals:

(1) To extend course offerings to meet identified needs of classroom teachers, administrators, and other school personnel.
(2) To analyze and evaluate course objectives and content annually.
(3) To make a continuous effort to improve admission and exit criteria for students.
(4) To improve and up-grade library holdings.
(5) To provide improved means for students to acquire reference materials in off-campus classes.
(6) To promote seminars to provide graduate faculty members with opportunities to discuss issues and trends in education, up-grade instructional delivery systems, and review new materials and equipment.
(7) To provide a continuous opportunity for faculty development.
(8) To maintain a close working relationship with public school officials in the area served by the graduate program.

Graduate Academic Calendar 1991 - 1992

FALL SEMESTER, 1991

August 7, Wednesday	Last day to finalize advance registration for fall semester.
August 26, Monday	Graduate Registration — 2:00 - 6:00 p.m.
August 27, Tuesday	Registration for fall semester until 4:30 p.m.
August 28, Wednesday	Classes begin.
September 2, Monday	Labor Day, no classes.
September 2 - 6	Constitutes the first week for refund purposes.
September 3, Tuesday	Last day for schedule changes. Must be completed before second class meeting. Last day to register for fall semester. Must be completed by second class meeting. Last day to apply for December graduation.
October 12, Saturday	Written exercise required for M.A. and Fifth-Year Candidacy, 10:00 a.m.
October 17, 18, & 19	No classes.
October 21, Monday	Classes resume.
November 13, Wednesday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W". Advising and Advance Registration for spring semester.
November 23, Saturday	M.A. Comprehensive Examination for M.A., 8:00 a.m.
November 27 - December 1	Thanksgiving Vacation; no classes.
December 6, Friday	Last day to finalize advance registration for spring semester.
December 7, Saturday	Final Examinations for Saturday classes.
December 9, 10, 11, & 12	Final Examinations.

SPRING SEMESTER, 1992

January 6, Monday	Graduate registration- 2:00 - 6:00 p.m.
January 7, Tuesday	Registration for spring semester until 4:30 p.m.
January 8, Wednesday	Classes begin.
January 13 - 17	Constitutes the first week for refund purposes.
January 14, Tuesday	Last day for schedule changes. Last day to register for spring semester. Last day to apply for May - August graduation.
February 1, Saturday	Written Exercise required for M.A. and Fifth-Year Candidacy, 10:00 a.m.
March 16 - 20	Spring vacation.
April 1, Wednesday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
April 9, Thursday	Advising and advance registration for May Interim, Summer Sessions and Fall Semester.

April 11, Saturday	M.A. Comprehensive Examination, 8:00 a.m.
April 17 & 18	Easter vacation; no classes.
April 25, Saturday	Final examination for Saturday classes.
April 27, Monday	Last day to finalize advance registration for May Interim.
April 27, 28, 29, & 30	Final Examinations.
May 2, Saturday	Commencement 10:00 a.m.

MAY INTERIM, 1992

May 4, Monday	Classes begin on regular schedule. Graduate registration- 2:00 - 6:00 p.m.
May 6, Wednesday	Last day to register for May Interim. Last day for schedule changes.
May 8, Friday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
May 18, Monday	Last day to finalize advance registration for first summer session.
May 22, Friday	Final Examinations. Last meal — supper.

SUMMER 1992 — FIRST SESSION

May 25, Monday	Residence halls open for new students at 1:00 p.m. Memorial Day; no classes.
May 26, Tuesday	Advising and Registration. Students may register for both summer sessions. Classes begin on regular schedule.
May 28, Thursday	Last day for schedule changes. Last day to register for first summer session.
June 10, Wednesday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
June 22, Monday	Last day to finalize advance registration for second summer session.
June 26, Friday	Final Examinations. Students not registering for second summer session must check out of residence halls by 6:00 p.m. Last meal — supper.

SUMMER, 1992 — SECOND SESSION

June 28, Sunday	Residence halls open for new students at 1:00 p.m.
June 29, Monday	Advising and Registration. Classes begin on regular schedule. First meal — breakfast.
July 2, Thursday	Last day for schedule changes. Last day to register for second summer session.
July 15, Wednesday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
July 31, Friday	Final Examinations. Last meal — supper. Residence halls close at 6:00 p.m.

Residence halls will not close during the period from the end of Spring Semester through Summer II. Food service, however, will not be provided during the short periods between these terms.

General Information

Location of the College

Union College is located in Barbourville, a residential town of 3,500, on U.S. Highway 25E, midway between Lexington, Ky., and Knoxville, Tenn. The historic Wilderness Road runs along the eastern edge of the campus. The Dr. Thomas Walker State Park is four miles from the campus and in adjoining counties are the Cumberland Falls State Park, the Levi Jackson State Park, and the Pine Mountain State Park.

Graduate students may enroll for a portion of their work in courses offered in off-campus centers in a number of nearby communities.

Library and Learning Resource Center

The Abigail E. Weeks Memorial Library houses a collection of approximately 80,000 books and other materials in a newly expanded facility. More than 350 periodicals are regularly received, along with indexing services to facilitate their use. The stacks are open for use by all students. A variety of study spaces provides seating for over 300 students, some in rooms designed for group study. The Library staff places first priority on helping students use both the materials and the equipment.

The College's library contains several specialized collections. There is a special collection of over 1,000 volumes devoted to Abraham Lincoln and the Civil War. The Library is also a selective depository for U.S. government publications. In addition, there is a Curriculum Center for education majors, a Music Library with a collection of more than 3,500 recordings and musical scores, and a Science Library.

The Learning Resource Center is housed within the Library and supplements the printed materials of the Library with a broad range of non-print media. These include slides, audiotapes, videotapes, filmstrips, kits, and computer software. The LRC provides educational materials for classroom use and individualized study. The LRC staff offers individual and group instruction to students and faculty in the use of equipment and materials.

Center for Economic Education

The Center for Economic Education is located on the second floor of Centennial Hall. As a member of the Kentucky Council on Economic Education (KCEE) and its national counterpart, the Joint Council on Economic Education (JCEE), Union College maintains this Resource Center for teachers in all grades. It includes a repository for free materials which are available for teachers who wish to utilize them in their classrooms.

Some examples of materials in the Center are computer programs, both Apple and IBM, for all grade and skill levels, videotapes which may be borrowed or copied by teachers, and a wide variety of written publications. Three courses in economic education are available for teachers, most of whom may qualify to receive a partial tuition scholarship for completion of each course, and these courses may be used by teachers at any level of certification for that purpose.

Computer Facilities

The college has a variety of computers available for student and faculty use, including an HP-3000 minicomputer, an AT&T UNIX-based super-microcomputer, and numerous microcomputer systems. The AT&T computer is connected to BITNET and USENET through a cooperative agreement with the University of Kentucky.

Two microcomputer laboratories on campus are used for instruction and are available for student and faculty use when not being used for classes. One is located in the Mahlon A. Miller Science Center and contains Apple IIe's and a terminal to the AT&T system. Another is in Centennial Hall, Room 200; it contains IMB-compatible microcomputers. (Five of which are connected to the Hewlett Packard System), a MacIntosh microcomputer, and an ACER 1100 80386 microcomputer. This laboratory is operated by the Department of Business' Computer Information Systems Program and is staffed by faculty and student laboratory assistants. The lab is open for general use approximately fifty hours each week, primarily late afternoons and evenings — Monday through Thursday.

The third microcomputer laboratory is in Centennial Hall, Room 209 — the Ray C. Hensley Business Simulation Center. This center contains Hewlett Packard Vectra ES/12 color microcomputers, a scanner, laser and other printers. Telecommunication capabilities include fax and internal modem equipment.

Additional microcomputers are available for use in other areas. A MacIntosh and Apple IIGS microcomputers are used in the Learning Lab for tutoring and remedial instruction. The Journalism Program utilizes a MacIntosh in the production of the student newspaper and yearbook as well as in the classroom instruction. An Apple IIGS is used by the Music Department in the teaching of its classes, and Apple IIe and IBMPC microcomputers are available for use in the various science laboratories.

Most administrative offices use microcomputers connected to the college's administrative minicomputer to assist them in their duties.

Campus Activities

Student activity fees are not required of graduate students; however, graduate assistants, graduate students living on campus, and those residing near the campus are encouraged to take part in social and cultural functions of the college.

Registration

Students seeking course credit must be admitted to the graduate program or have a Visiting Student Permit. For details, please refer to the section on **Admissions.** Former Union College graduate students who have not been in attendance during the past year must apply for readmission and update their records in the Graduate office.

Course registration enrollment may be completed on campus or by mail during the

period of advance registration, using forms obtainable in the Graduate office. After this period, registration must be completed *in person.* There is no registration or change of program by phone.

Whenever the course enrollment has been entered on the computer registration system, the student is responsible for payment of assessed charges unless a change-of-program form or a letter requesting withdrawal is submitted to the Registrar within the dates listed in the Academic Calendar.

Change of Program or Withdrawal

Notice of *any changes in the student's initial computer registration program* or of *total withdrawal* from the college, ***must be given to the office of the Registrar in writing.*** Upon request, the Registrar will provide change forms which should be approved by the major advisor and filed in the Registrar's office. Deadlines for changes are given in the Academic Calendar.

Attendance

Students are expected to attend all classes for which they are registered and are responsible for absences incurred by late enrollment. Students should avoid registering for courses which meet at times which conflict with anticipated teaching, administrative, coaching, or other duties at their respective schools or places of employment.

Inclement Weather Policy

Whenever weather conditions necessitate the cancellation of classes, a decision will be made as early as possible so that radio and television stations can notify listeners in their areas. Should the situation change during the day the Graduate office will get the word out to faculty members and students by whatever means seem most appropriate. Attempting to phone the Graduate office will overload the college switchboard and result in delay and frustration. Often phone networks can be set up at the beginning of the term by individual classes.

Unless notification is made as indicated above, normal class schedules will be maintained.

Application for Graduation

Application for graduation should be made in the office of the Registrar according to the following schedule. Students planning to complete all requirements for the May commencement should make application at the beginning of the prior fall semester. Those planning to finish during the summer terms should make application at the beginning of the spring semester. Those completing all degree requirements during the fall semester may participate in the following May commencement.

Students who complete all requirements in the spring or summer term may participate in the May commencement. Those failing to participate are required to pay an absentia fee (see fee under financial information).

M.A. and Fifth-Year students who earn a 4.0 grade point average are recognized at

commencement with a bronze Medallion. Students completing Rank I are awarded a certificate signifying completion of a sixth year program. Directed Field Projects required of all Rank I students, judged to have exceptional merit, are recognized by bronze Medallions.

Transcripts

The college regards the student's transcript as a personal and private document; it is released only on the *written authorization* of the student and payment of the required fee. Requests for transcripts should be made directly to the office of the Registrar, and should include the full name, social security number, and dates of attendance. Married women should also add the maiden name for identification. Information as to the use to be made of the transcript and date it is needed will be helpful. When official transcripts are sent directly to the student, they are stamped "Issued to Student." Financial obligations to the college must be cleared before a transcript is issued. Each student is entitled to one free transcript; a $3.00 fee is charged for each additional transcript. Transcript request forms are available in the Registrar's Office.

Automobiles – Parking

The college maintains paved parking lots for the use of commuting and resident students. Automobiles parked on campus must be registered in the Business office and must display an official Union College parking permit on the rear window on the driver's side. This applies to part-time as well as full-time students. Permits may be obtained free of charge in the Business Office. Cars must be parked in designated areas only. The parking areas in the interior section of the campus adjacent to Centennial Hall and the Maintenance Building are restricted to delivery/service and motor pool vehicles, handicapped parking, and other authorized vehicles. City police enforce the no-parking regulation on College Street in front of the campus. Violation of campus parking regulations may result in fines charged against the student's account or in towing at the owner's expense. Parking for the handicapped is provided.

Placement Services

The Career Planning and Placement Office offers assistance to current students and alumni in securing positions relative to their background, interests, and qualifications. The office offers guidance in career planning and practical assistance in developing placement files, including resumés and letters of application.

All alumni and current students enrolled in degree or certification programs are eligible to register. Registration is neither automatic nor compulsory; it must be initiated by the individual. There is no charge for registration.

Students are advised to develop a placement file while they are in attendance at the College, when they can readily obtain references from faculty members. Files of inactive registrants are retained in storage for future use. Inactive registrants may add references at any time and may have their credentials forwarded to prospective employers.

The office is located in Room 104 in Centennial Hall.

Bookstore

The Bulldog Bookstore is located on the lower level of the Frances Patridge Student Center. Regular semester hours are 9:00 a.m. to 4:30 p.m., Monday through Friday, with extended hours during registration periods. Summer hours may be shorter. The bookstore stocks textbooks, materials and supplies, clothing, and a variety of gift items. Textbook refund periods and buy-back policies are posted.

Housing and Food Service

Full-time graduate students may elect to live on campus or obtain their own facilities in the community. Residence Hall rooms are available and may be obtained through contact with Dean of Students. All students living in the residence halls are required to obtain a boarding ticket and eat in the college dining hall.

A limited number of one-bedroom apartments are available for students with not more than one child. Pets are not allowed. Applications for apartments should be made in advance with the Dean of Students.

The Myrtle Cole Minton Cafeteria is located on the lower level of the Frances Patridge Student Center. All meals are served cafeteria style. Hours of operation and meal prices are posted in the dining room. Commuting students are welcome in the dining room and may purchase individual meal tickets at the door. A snack bar is also located on the lower level of the Student Center.

Financial Information

The academic year includes two fifteen-week semesters, a three-week May interim session, and two five-week summer sessions. Below are applicable charges and fees.

Regular Semester Expenses (1991 - 1992)

Tuition, per semester hour (less than 12 semester hours)	$ 145
Tuition, full time (12 or more semester hours)	2,770
Room and board (19-meal week)	1,280
Private room (additional)	105
Married student apartment (per month, including utilities)	150
Activity fee (full-time students)	25

Summer Session Expenses (1991)

Tuition, per semester hour	145
Room and board (19-meal week)	360
Room and board (15-meal week)	305
Private room (additional)	30

May Interim Expenses (1992)

Tuition, per semester hour	145
Room and board (19-meal week)	230
Private room (additional)	20

Fees

Admission application fee	15
Late registration fee	15
Graduation fee (payable by M.A. and Fifth-Year graduates)	35
Graduation-in-absentia fee (payable in addition to the graduation fee by graduating students not attending commencement exercises)	25
Audit fee, per semester hour	15
M.A. Comprehensive Examination fee	5
Transcript (per copy, after first free copy)	3

Room and board charges are prorated for courses with irregular time schedules.

Fees and other expenses to be paid by students, as listed above and elsewhere in this catalog, are reviewed periodically and are subject to change.

Payment Policy

Financial Clearance

A student will be cleared for registration only if any previous balance has been paid. The new semester's account must then be paid in full, or a signed payment plan and first installment completed. Summer school and short sessions must be paid in full at the date of registration — no payment plan is permitted for summer or short sessions.

Authorized financial aid for the Fall and Spring Semesters will be credited to the student's account and a payment plan set up for the balance. In case the financial aid is anticipated but not yet authorized, the student must pay as a first installment one-third of the *total* costs.

A student having any unpaid balance will not be cleared for the release of an official report of grades, a transcript of credits, or a diploma.

Finance Charge

A monthly finance charge of one and a half percent (18% annual rate) will be added to the unpaid balance on all student accounts at noon on the last working day of each month.

Payment Plan

If the new semester's account cannot be paid before registration, a payment plan can be completed and a first installment paid down. The payment plan requires one-third payment on each of the following dates after which the student may be withdrawn from courses if the account is not paid up:

(1) On or before fall semester or spring semester registration — one-third.

(2) Due September 20th (fall semester) or January 20th (spring semester) — one-third.

(3) Due October 20th (fall semester) or February 20th (spring semester) — one-third.

Any student who owes a balance on his or her account after November 15th (fall) or March 15th (spring) may be subject to withdrawal procedures.

Refund Information

Since faculty contracts and other commitments are made by the College for the entire year in advance, the following refund schedule has been established in order that the College and the student may share the loss equitably when it is necessary for a student to withdraw or make a change in his or her program.

(1) A student is considered to be enrolled until he or she completes drop/withdrawal procedures. These procedures must be completed in person or by mail. Necessary forms must be obtained from the Office of the Registrar. All refunds will be based on the date these drop/withdrawal forms are completed and returned to the Office of the Registrar.

(2) A full refund may be obtained for a class only if a student has not attended beyond the

first session and completes drop/withdrawal procedures with the Office of the Registrar.

(3) Any portion of board charges unused up to date of withdrawal will be refunded, except that a full week's board will be charged for any fraction of a week.

(4) Tuition and room charges will be refunded on the following basis:

Regular Semester — Twenty percent of the total for tuition and room will be charged the first week, 40% the second week, 60% the third week, 80% the fourth week. No refund will be given after the fourth week. Any part of a week will be treated as a full week. Refund is based on the tuition charges less $10 student center allocation, $1 class dues, $1 student senate fee, $3 for I.D. card, and $25 activity fee.

Summer and Short Terms — Withdrawal up to the end of the first week will permit a 50 percent refund. No refund will be made after the end of the first week. Any part of a week will be treated as a full week.

(5) **Refund of Overpayment on Student Account** — If a student makes an overpayment on his or her account, a written request for refund must be submitted to the Business Office within one year after the end of the last academic term for which the student was enrolled.

(6) **Room Reservation Deposit** — This deposit will be refunded if the request is made in writing not later than August 1 for the fall semester or 30 days before the opening of any other semester for which the contract is first effective. Students, once enrolled, must submit a written request to the Dean of Students at least 30 days before the end of the term, for cancellation of the contract. This deposit will be refunded within 60 days upon receipt of written authorization by the Dean of Students indicating that the depositor is no longer enrolled as a student at Union College and that he or she has left the housing facility undamaged and does not owe other bills. The request for this authorization must be made within one year after the end of the academic term for which the student was enrolled.

Financial Assistance

Limited financial aid and work-study opportunities are available to graduate students who demonstrate financial need. All students must demonstrate need by filing a Financial Aid Form (FAF) for any type of financial assistance. The Financial Aid Office can supply the necessary application forms. Application should be made two months prior to enrollment.

Perkins Loans (formerly National Direct Student Loans) are available to full-time graduate students, (12 semester hours or more, who demonstrate need). The interest rate is 5% and repayment begins six months after the student graduates or drops below six hours enrollment.

Stafford Loans are available also after filing the FAF through banks in a student's home state. The interest rate is 8% with a 6-month grace period following less than half-time (6 hours) enrollment.

Students eligible for Veteran's Benefits should contact the Registrar for information concerning procedures required to receive those benefits.

Admissions

General Requirements

Applicants for admission to the Graduate Studies Program may enter at the beginning of each academic semester, interim, or summer session.

Admission to graduate study does *not* imply admission to *candidacy* for the Master's Degree or Fifth-Year Certificate.

For admission as a regular graduate student an applicant must have completed requirements for a Bachelor's Degree at an accredited institution with a grade point average (GPA) of 2.5* or better. In addition to completing the *general application*, the applicant must arrange for the graduate office to receive:

1. **Application Fee.** Payment of the non-refundable $15 application fee.
2. **Transcripts.** Two *official* transcripts of *all* undergraduate and *all* graduate work completed must be sent directly to the Graduate office by the institutions where the credits and degrees were earned. If the transcript from the last institution indicates the former work taken by the applicant, including grades received, only that transcript is required.
3. **References.** At least two letters of reference are required from individuals who can attest to the applicant's academic and/or professional capabilities. Forms may be obtained in the Graduate Office.
4. **Teaching Certificate.** A copy of a valid teacher's certificate indicating areas in which the applicant is qualified.
5. **Planned Program.** A planned program signed by the Graduate Dean and Advisor.

*All grade point averages in this catalog are based on a four-point scale.

Fifth-Year Certification Program

In addition to the above general requirements, students applying for admission to a fifth-year program must provide official evidence of the completion of an initial teacher certification program.

Master of Arts in Education Degree Program

The requirements for admission to the Master of Arts in Education Degree Program are the same as those specified in "General Requirements" above, with the following addition:

The undergraduate transcript should indicate that a minor of 21 semester hours has been completed in the field of teaching desired in the student's Master's Degree Program. If this condition is not met, the student may be admitted conditionally.

In order to qualify for full admission, the student may need to complete the deficient undergraduate course work in addition to the graduate level courses prescribed for the M.A. degree.

Rank I Program

Applicants for admission to a program leading to the awarding of a Rank I classification must have completed requirements for the M.A. in Education Degree or the Fifth-Year Certificate. A GPA of 3.0 is necessary for unconditional admission to the program.

Elementary school teachers who have earned the Fifth-Year Certificate, but do not possess a Master's Degree in Education are not eligible for admission to certification programs in administration or supervision.

Uncertified Admission

A limited number of students who do not possess teaching certificates may be admitted to the Graduate Program for the primary purpose of improving their academic background. Ultimately, these applicants may obtain certification, provided they complete all of the course work and student teaching specified for the desired teaching certificate.

Conditional Admission

Applicants with GPA below the minimums specified for these programs may be approved as "conditional admissions." In such cases, the students must prove their ability to earn at least 3.0 GPA upon completion of the first 12 semester hours of graduate credit. Failure to achieve the 3.0 GPA level within the allowable 12 hours shall result in the recommendation that the student withdraw from the Program.

Admission to Candidacy

Admission to any program leading to the Master's degree or Fifth-Year Certificate is not equivalent to admission to *candidacy* for the Master's degree or Fifth-Year Certificate. Students must file an application for admission to candidacy for the M.A. or Fifth-Year Certificate before being permitted to register for courses beyond twelve semester hours.

Admission to candidacy for the Master's and for the Fifth-Year Certificate requires formal application to the Office of Graduate Academic Affairs and approval of the Graduate Council. The application is available in the Office of Graduate Academic Affairs and must be filed when the student has:

(1) Shown an aptitude for graduate study by the completion of 12 semester hours of graduate work with a grade point average of at least 2.5 for the Fifth-Year or 3.0 for the Master's degree.

(2) Satisfied any deficiency in oral or written English that has been reported by a member of the faculty.

(3) Successfully prepared a written exercise administered by the Office of Graduate Academic Affairs. The exercise will require each student to compose an essay on a topic drawn from choices provided by the Department of English. The essay will be rated on three criteria: (a) content, (b) structure, (c) style.

Students enrolling in the graduate program after September 1, 1985, must fulfill this requirement before completing 12 semester hours of graduate credit. Complete details may be obtained from the Office of Graduate Academic Affairs.

(4) Shown evidence of a valid teacher's certificate. The only exception to this is that a limited number of persons are accepted without teaching certificates as noted in the section on Uncertified Admission.

(5) Taken the Core battery of the National Teacher's Examination or the Graduate Record Examination (GRE) within the past four years, with scores acceptable within state guidelines. Students are required to take this examination before completing the first 12 hours of graduate work.

Transfer Credit

A maximum of nine semester hours from a recognized and accredited graduate school may be transferred toward the M.A. degree in Education. For students working on Fifth-Year Certificate a maximum of 14 semester hours may be transferred. Fifteen semester hours may be transferred toward the Rank I program. Requests for transfer credit must be appropriate to the student's planned program, carry a grade of at least "B", and be approved by the Dean of Graduate Academic Affairs.

No credit is allowed toward the Master's degree for courses taken by correspondence.

Academic Information

Degree and Certification Requirements

The Master of Arts in Education degree program and the non-degree Fifth-Year certification program are designed primarily for in-service teachers in public schools.

Master of Arts in Education Degree

Requirements for the Master's degree include: (1) completion of one of the degree programs described in the **Graduate Programs** section of this catalog; (2) a minimum grade point average of 3.0; (3) satisfactory performance on the Comprehensive Examination; and (4) completion at Union College of at least 21 of the required 30 semester hours. A minimum of 15 semester hours must be earned in courses numbered 500 or higher. For students electing to write a Master's thesis, the six semester hours of credit are included in the elective component (6 hours) of the degree plan.

Fifth-Year Certification

Fifth-Year certification requirements include: (1) completion of a 32-semester hour program of studies; (2) a minimum grade-point average of 2.5; (3) 12 semester hours in professional education courses; (4) 12 semester hours in a field of specialization, and (5) completion at Union College of at least 18 of the required 32 semester hours.

One of the Kentucky Fifth-Year certification programs allows certain Continuing Education Units (CEU) and in-service training to be credited toward a certificate. Students desiring to earn CEU credits at another institution for transfer on a Fifth-Year program at Union College must obtain permission in advance from the Dean of Graduate Academic Affairs.

Planned Program

Planned student programs are required of all graduate students and are to be completed by the student and an advisor or Dean of Graduate Academic Affairs. The written program constitutes an agreement leading to the M.A. degree and/or other certification programs. In order to assure that all academic requirements are met, *the student's program must be finalized before the completion of two graduate courses*. Any subsequent changes in the program must be approved by the Dean of Graduate Academic Affairs.

Maximum Course Loads

The maximum course load for full-time graduate students is fifteen semester hours for a regular semester, six hours per summer term, and three hours for an interim session. Graduate students engaged in full-time employment are restricted to six semester hours for a regular semester and three hours for a summer term. Twelve hours per semester constitutes a full load. Students taking 12 or more hours pay full tuition charges as found on page in this catalog.

Credit may not be earned concurrently at another institution without the permission of the Dean of Graduate Academic Affairs, and then only within the total limits indicated above.

Time Limits

A graduate student is expected to complete requirements for the Master's degree, the Fifth-Year Program, or Rank I no later than five years after beginning course work. An extension of the time limit for an additional three years may be granted for sufficient reason by the Dean of Graduate Academic Affairs and the Graduate Council upon written petition from the student. If the course work is deemed reasonable within the framework of current

knowledge and findings, or if for some physical reason the student has not been able to complete his/her work on schedule, consideration will be given for the extension of time.

The minimum time needed to complete the graduate work is two full semesters or its equivalent in summer sessions and part-time study.

Courses offered by Union College in off-campus locations apply toward the requirements, although some required courses are offered on campus only.

Independent Studies, TV Courses, Workshops

A student may take up to a total of 9 hours in TV courses, workshops, and independent studies at the Master's level, and up to a total of 12 hours on the 60-hour graduate program (M.A. + 30 or Rank I).

While the chief purpose of the independent study is to afford the student an opportunity to obtain credit for study outside the regular course offerings of the graduate program, permission may be granted under special conditions for a student to take a regularly scheduled course as an independent study.

Visiting students and students beginning their graduate studies are not permitted to take a course on an independent study basis.

Credit for independent studies done at other accredited institutions will be accepted provided such credit meets the Union College transfer credit requirements.

A student must have successfully completed nine semester hours of earned graduate credit in order to qualify for independent study.

All proposals for independent study must be approved by the Dean of Graduate Academic Affairs. It is the student's responsibility to work with a professor in planning the course of study and to present the proposal for approval no later than three days after the registration date of the semester during which the work is to be accomplished. Forms for independent study must be obtained from the Office of Graduate Academic Affairs.

Comprehensive Examination

A written comprehensive examination is required of all students who have been admitted to candidacy for the Master of Arts in Education degree and who have completed or are completing 24 credit hours toward the degree. The examination is given in April, July, and November each year. *Students must be admitted to candidacy for the Master's degree before being allowed to take the examination. An application for the examination must be filed in the Graduate Office at least 30 days prior to the scheduled date of the exam.*

A student who fails one of the four parts of the examination and is scheduled to graduate at the end of that term may request an oral examination on that part or may repeat the examination at a later date.

Following are some of the salient aspects of the comprehensive examination:

(1) All examination questions are of the essay type.

(2) The comprehensive examination includes four areas, each representing a one-hour section of the examination: 1) research, 2) professional knowledge, 3) a current topic in education and 4) the student's teaching field.

(3) The research question requires the analysis of a published research report and the interpretation of examples of commonly used statistical procedures.

(4) The professional knowledge portion includes questions representing each of the courses in the professional block of the degree program. Students write on any one of these questions.

(5) The third question requires all students to write on a current topic in education, the topic to be selected by the faculty examination committee. Students are expected to have read widely in current education journals. A list of possible topics is prepared sufficiently in advance of the examination to guide students in their reading.

(6) The fourth question requires the student to write on a topic in his or her teaching field.

Master of Arts Thesis

Students may opt to write a thesis in partial fulfillment of the requirements for the M.A. degree. The thesis is a systematic, written presentation of the results of a study, investigation or research. Thesis credit will fulfill six hours in the elective component of the M.A. program.

The Union College Graduate Council views the Master's Thesis as a completed document that demonstrates a high degree of competence in originality and creativity. Before registering for EDUC 599 (Thesis), the student must complete a total of 15 semester hours of graduate work, including EDUC 500 - Educational Research.

Students choosing the thesis route must have an advisory committee of at least three faculty members who regularly teach graduate courses. The chairman shall be from the student's major area of interest. At least one member shall be from the area of education, and at least one member shall be from outside the field of education. The Dean of Graduate Academic Affairs shall serve as ex officio member. The names of the committee/members shall be submitted to the Dean for approval.

The committee, appointed by the Dean of Graduate Academic Affairs, shall review the student's proposal to ensure that the problem to be investigated is a significant one, that a thorough review of the literature has been conducted, and that the student is planning to use proper methodology.

The completed draft of the thesis is to be presented to the chairman of the student's advisory committee at least 30 days before graduation. A final oral examination on the thesis is to be successfully completed 10 days before graduation. Two copies of the completed thesis and an abstract (150-350 words) are to be presented to the Dean one week before graduation.

If the thesis is not completed within two semesters after the student registers for EDUC 599, the candidate must continue to register each semester until the thesis is completed. The student shall pay a continuous registration fee of one credit hour tuition charged each semester until the thesis is completed unless the change is otherwise waived by the thesis committee. Exceptions must be recommended by the thesis committee and approved by the Graduate Council.

Detailed information concerning the thesis may be obtained in the Graduate Office.

Auditing

With the consent of the instructor a person may audit a course, provided he/she meets the graduate admission requirements. An auditor is one who wishes to attend a class regularly, but who does not wish to meet the assignment or evaluation requirements of students enrolled for credit. Courses with limited enrollment, laboratory courses, and seminars are not open to auditors. Audited courses will not appear on the transcript and may not later be applied for credit. A fee of $15 per semester hour is charged.

Seniors as Graduate Students

The option to enroll in graduate courses (400G or 500 level) is open to seniors lacking no more than six credit hours for graduation and satisfying the following conditions:

(1) The student's grade point average must be at least 3.0 on all work attempted.

(2) The approvals of the Dean of Graduate Academic Affairs, the student's advisor and the Registrar must be obtained.

(3) The total of the student's academic load may not exceed twelve credit hours for the semester.

(4) All requirements for the undergraduate degree must be completed during the semester or summer in which the student is allowed to register for part-time graduate work.

Graduate credit will be allowed only for those courses completed beyond the requirements for the undergraduate degree.

In addition to the application for admission to the Graduate Studies Program, the student is required to file a petition form listing the course or courses to be taken to complete the undergraduate degree as well as courses to be taken for graduate credit.

The petition must be approved by both the Dean of Graduate Academic Affairs and the Registrar.

The Grading System and Quality Points

Grades for graduate courses at Union College are defined as follows:

A Excellent. Outstanding achievement. Four quality points.

B Good. Acceptable achievement. Three quality points.

C Fair achievement. Only minimally acceptable. Two quality points.

D Very low performance. One quality point. The records of students receiving such grades are subject to review. The result could be denial of permission to register for further graduate work at Union College.

F Failure. No academic credit and no quality points.

W Withdrawal from a course during the first 12 weeks of the semester. Failure to officially withdraw from a course before the withdrawal deadline indicated in the academic calendar may result in an automatic grade of F.

I Incomplete. Used when attendance requirements have been met but granting a grade has been postponed because, for reasons satisfactory to the instructor, certain course assignments have not been completed. An "I" must be removed before the end of the following regular semester if the student is enrolled for that semester. If the student is not enrolled, the "I" must be removed before the end of the 12-month period following the date the grade was recorded. An "I" that is not removed within the time limit remains on the student's permanent record and cannot be made up.

If a course is repeated at Union College, only the second grade is used in computing the student's grade point average.

Course Numbering System

Courses available to graduate students are offered on three levels, numbered 400, 500, and 600. A limited number of 400-level undergraduate courses are open to graduate students, and are so designated by a "G" in the course number. (Example: EDUC 401G.) A maximum of 15 semester hours may be taken on the M.A. level, six semester hours on the Rank I level. Since these courses are available to advanced undergraduate students, care must be exercised to avoid duplication of courses already taken.

Courses on the 500 level are limited to graduate students. Those on the 600 level are intended primarily for Rank I students, although 9 semester hours on this level may be taken by M.A. candidates.

Some course numbers are reserved for specific types of courses, and are not included in **Course Descriptions** section of this catalog.

581, 681	"Special Topics" courses developed on a one-time basis, or a special innovative course.
582, 682	Special workshop.
583, 683	Courses offered through the Kentucky Educational Television Network (KET).
595, 695	Independent study. Courses offered for individual study outside the regular course offerings. Under special conditions a student may be permitted to take a regularly scheduled course as an independent study.

Graduate Programs of Study

Master of Arts in Education
Non-Degree Fifth-Year Program
Rank II Certification

Elementary Teacher 22-24
Kindergarten Teacher 23
Middle School Teacher 25
- English and Communication
- Mathematics
- Science
- Social Studies

Reading Specialist 27
High School Teacher 27-31
- English 28
- Health 28
- History 28
- Music 28
- Psychology 29
- Science 29
- Social Studies 30
- Sociology 30

Rank I Certification

Elementary Teacher 31-32
Middle School Teacher 31-32
High School Teacher 31-32
Reading Specialist 27
Elementary School Principal 32, 33
Middle School Principal 32, 34
High School Principal 32, 34
Supervisor of Instruction 32, 35

Administrative Programs

Elementary School Principal 33
Middle School Principal 34
High School Principal 34
Supervisor of Instruction 35

Curricula

The planned Fifth-Year Program required for the renewal of provisional elementary teaching certificates shall be planned as outlined by the Kentucky State Department of Education and shall be accepted as an equivalency for a Rank II classification in Kentucky. Union College has adopted the following three plans whereby students may earn Rank II Classification:

1. Completion of the Master of Arts in Education degree (non-thesis) — 30 semester hours.
2. Completion of the Master of Arts in Education degree (thesis) — plus 24 semester hours.
3. Completion of the Fifth-Year non-degree program — 32 semester hours.

Early Elementary Education Curriculum, K-4

(M.A., Standard Certificate, Rank II)

1. PROFESSIONAL EDUCATION COMPONENT ..... 12 Semester hours

EDUC 500	Methods of Educ. Research
EDUC 520	Techniques and Materials for Classroom Reading
	OR
EDUC 530	Diagnostic and Remedial Procedures in Reading
Choose one:	
EDUC 502	Curriculum Design
	OR
EDUC 603	Elementary Curriculum
PSYH 600	Advanced Human Development

2. SPECIALIZATION COMPONENT ..... 12 Semester hours

ECON 601	Economics for Teachers
ECON 605	Consumer Economic Issues for Teachers
ENGL 402G	Modern Grammar
ENGL 419G	Composition for Teachers
ENVS 469G	The Appalachian Environment
ENVS 550	Environmental Education Strategies
GNSC 401G	Science: Concepts, Processes, Inquiry
GNSC 525	Science for the Elementary Grades
GNSC 551	Topics in Physical Science
HLTH 451G	School and Community Health
HLTH 582	Safety Education
HLTH 475G	Special Topics in History
HIST 521	History and Culture of Appalachia
MATH 531	Topics of Modern Math for Elementary Teachers
MATH 532	Modern Math Laboratory
PSYH 470G	Theories of Learning
PSYH 565	Psychology of Exceptional Children
SOCI 421G	Rural and Urban Society
SOCI 511	Educational Sociology

Courses chosen above should be from four (4) separate fields.

3. ELECTIVE COMPONENT* ..... 6 Semester hours

Students electing to continue their education in administration may use these suggested

electives to begin an administration program or strengthen their backgrounds in behavioral science.

EDUC 441G	Teaching Social Studies
EDUC 468G	Educational Media
EDUC 511	Tests and Measurements
EDUC 603	Elementary School Curriculum
EDAD 630	School Law

*Thesis — EDUC 599 (6 hours) may be written in lieu of taking 6 hours of course work. For further information the student should contact the graduate office.

Early Elementary Education Curriculum, (K-4)
(Fifth-Year Certificate, Rank II, Non-Degree)

1. PROFESSIONAL EDUCATION ..... 12 Semester hours

Must include:

EDUC 500	Methods of Research
EDUC 520	Techniques and Materials for Classroom Reading Instruction
	OR
EDUC 530	Diagnostic and Remedial Procedures in Reading

Choose one:

EDUC 502	Curriculum Design
	OR
EDUC 603	Elementary School Curriculum
PSYH 600	Advance Human Development

2. SPECIALIZATION COMPONENT ..... 12 Semester hours

Must be selected from those courses listed under the Specialization Component in the Master (K-4) program. Course selection may be made upon needs and current teaching assignment. Selection may include courses numbered 581, 681, (special topics) and/or 582, 682 (special workshops), however courses must be approved by advisor and Dean of Graduate Studies. Six hours must be graduate level.

3. ELECTIVES ..... 9 Semester hours

May be chosen from the area of specialization or other graduate courses — Education or Non-Education, depending upon interests and needs of student. However, selection must be made in sequence with previous preparation. Courses numbered 583, 683 (Kentucky Educational TV Network) may be included.

Kindergarten Teacher Preparation

An endorsement for teaching kindergarten shall be issued to applicant who holds a valid certificate for classroom teaching at the elementary level (1-8) and who has completed the program below for the kindergarten endorsement.

EDUC 440G	Introduction to Early Childhood Education	3 hrs.
EDUC 542	Fundamentals to Kindergarten Education	3 hrs.
EDUC 545	Practicum in Kindergarten Education	6 hrs.

A portion of the kindergarten program may be included in the program leading to the standard elementary certificate.

The kindergarten program is offered in the summer on demand.

Early Elementary Endorsement Program (K-4)

The program of preparation for the endorsement for teaching at the K-4 level of certificate valid for classroom teaching in the **Middle** grades **or** at the **High School** level. (The endorsement plan is based upon the Union College undergraduate program approved by the Kentucky State Board of Education.)

A number of the required courses listed below are of graduate level and may be applied toward the M.A. degree in Education or Rank I Certificate. Complete information is available in the Graduate Office.

1. PROFESSIONAL PREPARATION:

Education 351 - Human Growth and Development ..... 3 hrs.

OR

Psychology 600 - Advanced Human Development ..... 3 hrs.

Education 361 - Reading in the Primary Grades ..... 3 hrs.

OR

Education 520 - Techniques and Materials for Classroom Reading Instruction. ..... 3 hrs.

*Education 341 - Methods of Teaching Mathematics in Elementary School ..... 3 hrs.

OR

*Math 532 - Modern Math Laboratory ..... 3 hrs.

*General Science 401G - Science: Concepts, Processes, and Inquiry ..... 3 hrs.

OR

*GNSC 525 - Science for the Elementary Grades ..... 3 hrs.

*Education 441G - Methods of Teaching Social Studies ..... 3 hrs.

*Education 433 - Supervised Student Teaching in the Elementary Grades ..... 3-6 hrs.
(K, 1, or 2 level)

OR

Education 635 - Laboratory Experiences ..... 3 hrs.
(K-4)

(Students must have completed at least one year of full-time teaching.)

*Course work will contain experience with the use of computers and classroom experiences (K-4).

2. RELATED STUDIES:

Art 271 - Elementary School Art ..... 3 hrs.
Music 373 - Elementary School Music ..... 3 hrs.
Physical Education 261 - Physical Education in the Elementary School ..... 3 hrs.
Health 451G - School and Community Health ..... 3 hrs.
Health Elective (graduate or undergraduate) ..... 3 hrs.

Candidates without a major, minor, or area of concentration in mathematics must complete one of the following:

Math 203, 204 ..... 6 hrs.

OR

Math 531 - Topics in Modern Math for Elementary Teachers ..... 3 hrs.

English 355 - Children's and Adolescent Literature ..... 3 hrs.

Middle School Curriculum
(M.A., Standard Middle School Certificate (5-8) and Rank II)

1. **PROFESSIONAL EDUCATION COMPONENT** ..... 12 Semester hours
   EDUC 500 Methods of Educ. Research
   EDUC 502 Curriculum Design
   EDUC 601 The Middle School
   EDUC 605 Advanced Study of the Middle Grade Child
2. **SPECIALIZATION COMPONENT** ..... 12 Semester hours
   Will be selected from those academic fields previously completed for provisional certification.
3. **ELECTIVES** ..... 6 Semester hours

   OPTION I — 30 HOURS COURSE WORK
   Elect with approval of Dean of Graduate Affairs from appropriate areas of specialization or other graduate courses. EDUC 501 History and Philosophy of Education and PSYH 565 Psychology of Exceptional Children are suggested.

   OPTION II — EDUC 599 — MASTERS THESIS (6 HOURS) plus 24 semester hour of course work.

Middle School Curriculum
(Fifth Year Certificate, Standard Middle School (5 - 8) and Rank II)

1. **PROFESSIONAL EDUCATION COMPONENT** ..... 12 Semester hours
   EDUC 500 Methods of Educ. Research
   EDUC 502 Curriculum Design
   EDUC 601 The Middle School
   EDUC 605 Advanced Study of the Middle Grade Child
2. **SPECIALIZATION COMPONENT** ..... 12 Semester hours
   Will be selected from those academic fields previously completed for provisional certification. Six (6) hours must be completed at the graduate level.
3. **ELECTIVES** ..... 9 Semester hours

   May be chosen from the area of specialization or other graduate courses. EDUC 501 History and Philosophy of Education and PSYH 565 Psychology of Exceptional Children are suggested.

Middle Grade Endorsement Program (5-8)
(Applicants who hold Elementary Certificate)

The program of preparation for the endorsement for classroom teaching in the middle grades of a certificate valid for classroom teaching in the **Elementary** grades. (The endorsement plan is based upon the Union College undergraduate program approved by the Kentucky State Board of Education.)

Graduate level courses listed below may be applied toward the M.A. Degree in Education or Rank I Certificate.

Requirements:

1. The applicant must hold **24 hours** in one of the following fields:
   English and Communications
   Mathematics
   Science
   Social Studies

   Complete information is available in the Graduate Office as to specific courses needed in the above fields.

2. Education 601 - Advanced Study of the Middle Grade Child ..... 3 hrs.
   OR
   Education 352 - Human Growth and Development in the Middle Grades ..... 3 hrs.
3. Education 370 - The Middle School Curriculum ..... 3 hrs.
   OR
   Education 605 - The Middle School (curriculum) ..... 3 hrs.

Middle Grade Endorsement Program (5-8)
(Applicants who hold Secondary Certification)

The program of preparation for the endorsement for classroom teaching in the middle grades of a certificate valid for classroom teaching at the **high school** level. (The endorsement plan is based upon the Union College undergraduate program approved by the Kentucky State Board of Education.)

Graduate level courses listed below may be applied toward the M.A. Degree in Education or Rank I Certificate.

Requirements:

1. The applicant must hold **24 hours** in one of the following fields:
   English and Communications
   Mathematics
   Science
   Social Studies
   Complete information is available in the Graduate Office as to specific courses needed in the above fields.

2. Education 520 - Techniques and Materials for
   Classroom Reading Instruction ..... 3 hrs.
   OR
   Education 620 - Teaching Reading in the Content Field ..... 3 hrs.

3. Education 601 - Advanced Study of the Middle Grade Child ..... 3 hrs.
   OR
   Education 352 - Human Growth and Development in the Middle Grades ..... 3 hrs.

4. Education 370 - The Middle School Curriculum ..... 3 hrs.
   OR
   Education 605 - The Middle School (curriculum) ..... 3 hrs.

Reading Specialist Preparation

The requirements for the Reading Specialists Certification are currently being revised to meet new guidelines. Please check in the Graduate Office for details.

High School Curriculum

Persons holding the provisional certificate for teaching in high school (9-12), may choose one of the following three options to earn Rank II certification:

1. Completion of the Master of Arts in Education degree (non-thesis) — 30 semester hours
2. Completion of the Master of Arts in Education degree (thesis) — 24 semester hours
3. Completion of the Fifth-Year Non-degree program — 32 semester hours

English Curriculum

(M.A. in Education, Standard Secondary Certificate, Rank II)

1. **PROFESSIONAL EDUCATION** ..... 12 Semester hours
   EDUC 500, 501, 502 or 600
   PSYH 600
2. **SPECIALIZATION COMPONENT** ..... 15 Semester hours
   Select EDUC 520, 620, or 530 and four courses from:
   ENGL 401G, 402G, 419G, 421G, 451G, 521, 522, 541, 542, 572, or 595
3. **ELECTIVES*** ..... 3 Semester hours
   Elect from area (1) or (2) above or from other graduate disciplines with approval of the Dean of Graduate Academic Affairs.
   EDUC 604 or EDAD 630 suggested

*Thesis — EDUC 599 (six hours) may be taken in lieu of 6 hours of course work. For further information the student should contact the graduate office.

Health Curriculum

(M.A. in Education, Standard Secondary Certificate, Rank II)

1. **PROFESSIONAL EDUCATION** ..... 12 Semester hours
   EDUC 500, 501, 502 or 600
   PSYH 600

2 **SPECIALIZATION COMPONENT** ..... 12 Semester hours
   Select from HLTH 451G, 475G, 551, 582, 595

3. **ELECTIVES** ..... 6 Semester hours
   Elect from area (1) or (2) above or from other graduate disciplines with approval of the Dean of Graduate Academic Affairs.
   EDUC 604 and EDAD 630 suggested

*Thesis - EDUC 599 (six hours) may be taken in lieu of 6 hours of course work. For further information the student should contact the graduate office.

History Curriculum

(M.A. in Education, Standard Secondary Certificate, Rank II)

1. **PROFESSIONAL EDUCATION** ..... 12 Semester hours
   EDUC 500, 501, 502 or 600
   PSYH 600
2. **SPECIALIZATION COMPONENT** ..... 12 Semester hours
   Select from: HIST 421G, 446F, 470G, 475G, 521, 531, 551, 595

3. **ELECTIVES*** ..... 6 Semester hours
Elect from area (1) or (2) or from other graduate disciplines with approval of the Dean of Graduate Academic Affairs.
EDUC 604 and EDAD 630 suggested

*Thesis — EDUC 599 (six hours) may be taken in lieu of 6 hours of course work. For further information the student should contact the graduate office.

Music Curriculum
(M.A. in Education, Standard Secondary Certificate, Rank II)

1. **PROFESSIONAL EDUCATION** ..... 12 Semester hours
EDUC 500, 501, 502 or 600
PSYH 600
2. **MUSIC COMPONENT** ..... 12 Semester hours
Choose four courses from the following:
Music 520, 570, 572, 573, 574, 575
3. **ELECTIVES*** ..... 6 Semester hours
Elect from area (1) or (2) above or from other graduate disciplines with approval of the Dean of Graduate Academic Affairs.
EDUC 604 and EDAD 630 suggested

*Thesis — EDUC 599 (six hours) may be taken in lieu of 6 hours of course work. For further information the student should contact the graduate office.

Psychology Curriculum
(M.A. in Education, Standard Secondary Certificate, Rank II)

1. **PROFESSIONAL EDUCATION** ..... 12 Semester hours
EDUC 500, 501, 502 or 600
PSYH 600
2. **SPECIALIZATION COMPONENT** ..... 12 Semester hours
Select from:
Psychology 402G, 460G, 461G, 470G, 565, 595, 640
3. **ELECTIVES*** ..... 6 Semester hours
Select from area (1) or (2) above or from other graduate disciplines with approval of the Dean of Graduate Academic Affairs.
EDUC 604 and EDAD 630 suggested

*Thesis — EDUC 599 (six hours) may be taken in lieu of 6 hours of course work. For further information the student should contact the graduate office.

Science Curriculum - Biological Science
(M.A. in Education, Standard Secondary Certificate, Rank II)

1. **PROFESSIONAL EDUCATION** ..... 12 Semester hours
EDUC 500, 501, 502 or 600
PSYH 600
2. **SPECIALIZATION COMPONENT** ..... 12 Semester hours
A minimum of six hours in Biology. Must include BIOL 595 unless thesis option is chosen below. An additional six hours should be chosen from courses in the major or minor teaching field. ENVS 550 or GNSC 584 may be included.

3. **ELECTIVES*** ..... 6 Semester hours
M.A. thesis (six hours) is recommended. Suggested alternative is EDUC 604 and EDAD 630 or one course from area 1 above.

*Thesis — EDUC 599 (six hours) may be taken in lieu of six hours of course work. For further information the student should contact the graduate office.

Science Curriculum - Chemistry and/or Physical Science
(M.A. in Education, Standard Secondary Certificate, Rank II)

1. **PROFESSIONAL EDUCATION** ..... 12 Semester hours
EDUC 500, 501, 502 or 600
PSYH 600
2. **SPECIALIZATION COMPONENT** ..... 12 Semester hours
A minimum of six hours in Chemistry or Physics. Must include CHEM or PHYS 600 unless thesis option is chosen below. An additional six hours should be chosen from courses in the major or minor teaching fields. ENVS 550 or GNSC 584 may be included.
3. **ELECTIVES*** ..... 6 Semester hours
M.A. thesis (six hours) is recommended. Suggested alternative is EDUC 604 and EDAD 630 or one course from area 1 above.

*Thesis — EDUC 599 (six hours) may be taken in lieu of six hours of course work. For further information the student should contact the graduate office.

Social Science Curriculum*
(M.A. in Education, Standard Secondary Certificate, Rank II)

1. **PROFESSIONAL EDUCATION** ..... 12 Semester hours
EDUC 500, 501, 502 or 600
PSYH 600
2 **SPECIALIZATION COMPONENT** ..... 12 Semester hours
Select from:
SOCI 421G, 433G, 460G, 464G, 511, 595
HIST 421G, 446G, 470G, 475G, 521, 531, 551, 595
3. **ELECTIVES*** ..... 6 Semester hours
Elect from area (1) or (2) above or from other graduate disciplines with approval of the Dean of Graduate Academic Affairs.
EDUC 604 and EDAD 630 suggested

*Thesis — EDUC 599 (six hours) may be taken in lieu of six hours of course work. For further information the student should contact the graduate office.

*Open to those holding certification in a social studies concentration or having a history major or minor.

Sociology Curriculum
(M.A. in Education, Standard Secondary Certificate, Rank II)

1. **PROFESSIONAL EDUCATION** ..... 12 Semester hours
EDUC 500, 501, 502 or 600
PSYH 600
2. **SPECIALIZATION COMPONENT** ..... 12 Semester hours
Select from:
SOCI 421G, 433G, 460G, 464G, 511, 595

3. **ELECTIVES*** ..... 6 Semester hours
   Select from area (1) or (2) above or from other graduate disciplines with approval of the Dean of Graduate Academic Affairs.
   EDUC 604 and EDAD 630 suggested

   *Thesis — EDUC 599 (six hours) may be taken in lieu of six hours of course work. For further information the student should contact the graduate office.

High School Fifth-Year Non-Degree Curriculum*
(Standard Certificate, Rank II)

Requirements for students holding provisional secondary teaching certification and desiring to earn a fifth-year non-degree program are listed on page 17.

1. **PROFESSIONAL EDUCATION** ..... 12 Semester hours
   EDUC 500, 501, 502 or 600
   PSYH 600
2. **SPECIALIZATION COMPONENT** ..... 12 Semester hours
   Must be selected from teaching major or minor or closely-related field. Course selection may include courses numbered 581, 681 (special topics) and/or 582, 682 (special workshops), however courses must be approved by advisor and Dean of Graduate Studies. Six hours must be graduate level.
3. **ELECTIVE COMPONENT** ..... 8 Semester hours
   May be chosen from the area of specialization or other graduate courses — Education or non-Education, depending upon interests and needs of student. However, selection must be made in sequence with previous preparation. Courses numbered 583, 683 (Kentucky Educational TV Network) may be included.

   *Comprehensive exams are not required for the Fifth-Year Certificate.

Rank I Classification

The preparation program for Kentucky's Rank I classification under the Foundation Law shall be planned in advance by the candidate and the graduate advisor in terms of one (1) or more of the following purposes:

(a) To improve the professional competency for the position covered by the initial teaching certificate;

(b) To extend the scope of professional competency to some certification area not covered by the initial certificate;

(c) To obtain preparation-certification required for professional advancement to a higher position.

Rank I classification requires the completion of a planned program of 30 semester hours beyond the Master's level. The program for the Rank I must include a minimum of 12 hours of 600 level courses and may include a maximum of six hours of 400G level courses. Education 670 - Directed Field Project is required of all students.

Each program is especially planned for the student and requires a conference with the Dean of Graduate Academic Affairs or an Adviser prior to enrollment. Up to 15 hours credit may be transferred from other graduate institutions if appropriate to the student's planned program and if the final grade achieved is at least a "B".

A grade point of at least 3.0 is required for certification and no comprehensive examination is required. Correspondence courses may not be transferred into the program.

Although each program is individualized, the guidelines below will prevail in the planning of the program. Some courses may have been taken at the Master's level, and appropriate courses may be substituted with the permission of the Dean of Graduate Affairs.

Students who are admitted to Rank I program must:

1. Make application and have two different transcripts sent to the Graduate Office, Union College. (There is no application fee for students who receive the M.A. or 5th-year certificate at Union College.)
2. Submit latest certificate earned to Graduate Office.

Students who complete requirements for Rank I must file a request in the Registrar's Office for transcripts to be sent to appropriate officials. This applies to all students who are completing Rank I for certification or a change in rank or both. Proper Certification forms are available in the Registrar's Office and should be secured before the end of the term in which the student is completing his/her work.

Elementary, Middle, or High School Teacher (Rank I)*

1. **PROFESSIONAL EDUCATION** ..... 9 Semester hours
   Must include EDUC 500, 501, 670
   Suggested courses EDUC 511, PSYH 470G, 650
2. **SPECIALIZATION COMPONENT** ..... 12 Semester hours
   Include only non-education courses
   Suggested courses: PSYH 565 and 600
3. **RELATED FIELDS** ..... 9 Semester hours
   Must include EDUC 603 or 604, EDAD 630
   Remaining courses should be selected from: EDUC 468G, 502, 600, 620

*Some courses listed as required may have been taken at the M.A. or Fifth-year level. Appropriate courses may be substituted by consulting with adviser or Dean of Graduate Academic Affairs.

Administrative Certification Curricula

(M.A. plus 18 Semester hours)

Students pursuing the principalship or supervision program since the fall of 1988 must follow the new curricular requirements for the professional certificate for instructional leadership. Students who are under the former programs (prior to 1988) must meet all Certification requirements by Sept. 1, 1992. Students enrolled in the principalship program must take the following tests with satisfactory scores plus an internship program:

1. NTE - Speciality Area Test of Educational Administration and supervision.
2. NTE - Core Battery components of communication skills and general knowledge.
3. The Kentucky Specialty Test of Instructional and Administrative Practice.

Students outside Kentucky desiring Administrative Certification in their respective state should consult appropriate officials in that state for certification requirements.

Principalship Certification Programs

Students may earn certification for the principalship program with 18 graduate hours above the M.A. degree of required courses. This certifies the student for Level I after completion of the Internship Program which is valid for five years. For continued certification the student must earn 12 additional required graduate earning Level II Certification and Rank I.

The students must fulfill the following requirements to be admitted to any level of Principalship Certification:

A. Submit transcript indicating completion of M.A. degree.

B. Submit copy of Standard Teaching Certificate valid for regular classroom teaching for the grade levels for which he/she plan to be an administrative leader.
C. Present evidence of three years of full-time teaching.
D. Submit two formal recommendation (forms in graduate office).
E. Have a G.P.A. of 3.00 on graduate work earned.
F. Meet required current cut-off point of the N.T.E.

Professional Certificate for Instructional Leadership Elementary School Principalship, K-4

Prerequisite Courses

EDUC 500	Methods of Educational Research
EDUC 520	Techniques & Materials for Classroom Reading Instruction
	OR
EDUC 530	Diagnostic and Remedial Procedures in Reading
EDUC 501	History and Philosophy of Education
EDUC 502	Curriculum Design
	OR
EDUC 600	Advanced Curriculum
PSYH 565	Psychology of Exceptional Children
EDUC 603	Elementary School Curriculum
PSYH 600	Advanced Human Development
	OR
PSYH 650	Advanced Educational Psychology

Level I Certification Requirements

EDUC 511	Tests and Measurements
EDUC 573	Computers in Education
EDUC 676	Research and Seminar in Elementary Education
EDAD 645	School Organization & Administration
EDAD 654	Improvement of Instruction Through Supervision
EDAD 655	The Elementary School Principal

Level II Certification and Rank I Requirements

EDAD 630	School Law
EDAD 640	School Finance and Business Management
EDAD 669	School and Community Relations
EDAD 670	Directed Field Project - Personnel Administration

In addition to receiving Principalship Certification, the student will receive certification as Supervisor of Instruction, K-4.

A certificate based upon Level II preparation as a middle grade principal may be extended to early elementary school principal, grades K-4, upon completion of nine (9) semester hours of graduate credit which shall include, but not be limited to:

(1) Elementary school curriculum;
(2) Teaching reading at the elementary school level;
(3) Organization and administration of the elementary school; and
(4) Field experience in an elementary school.

For further details the student should contact the Graduate Office.

Professional Certificate for Instructional Leadership Middle School Principal, 5-8

Prerequisite Courses

EDUC 500	Methods of Educational Research
EDUC 502	Curriculum Design
	OR
EDUC 600	Advanced Curriculum
EDUC 520	Techniques & Materials for Classroom Reading Instruction
	OR
EDUC 530	Diagnostic and Remedial Procedures in Reading
EDUC 605	The Middle School Curriculum
EDUC 601	Advance Study of the Middle Grade Child
PSYH 565	Psychology of Exceptional Children

Level I Certification Requirements

EDUC 511	Tests and Measurements
EDUC 573	Computers in Education
EDUC 677	Research & Seminar on the Middle School
EDAD 645	School Organization & Administration
EDAD 654	Improvement of Instruction Through Supervision
EDAD 657	The Middle School Principal

Level II Certification and Rank I Requirements

EDAD 630	School Law
EDAD 640	School Finance and Business Management
EDAD 660	School & Community Relations
EDAD 670	Directed Field Project in Personnel Administration

In addition to receiving Principalship Certification, the student will receive Certification as Supervisor of Instruction, 5-8.

A certificate based upon Level II preparation as an early elementary school principal or as a secondary school principal may be extended to middle grade principal 5-8 upon completion of six semester hours of graduate credit which shall include, but not be limited to:

(1) Organization and administration of middle grade schools;
(2) Philosophy and curriculum of middle grade schools; and
(3) Nature and needs of middle grade school students.

The validity of the extend certificates shall be limited to the respective grade levels, either K-8 or 5-12.

For further details the student should contact the Graduate Office.

Professional Certificate for Instructional Leadership Secondary School Principal, 9-12

Prerequisite Courses

EDUC 500	Methods of Educational Research
EDUC 501	History and Philosophy of Education
EDUC 502	Curriculum Design
	OR
EDUC 600	Advanced Curriculum
EDUC 604	Secondary School Curriculum
PSYH 600	Advanced Human Development
	OR
PSYH 650	Advance Educational Psychology
PSYH 565	Psychology of Exceptional Children

Level I Certification Requirements

EDUC 511	Tests and Measurements
EDUC 573	Computers in Education
EDUC 678	Research & Seminar in Secondary Education
EDAD 645	School Organization & Administration
EDAD 654	Improvement of Instruction Through Supervision
EDAD 656	The Secondary School Principal

Level II Certification and Rank I Requirements

EDAD 630	School Law
EDAD 640	School Finance & Business Management
EDAD 660	School & Community
EDAD 670	Directed Field Project in Personnel Administration

In addition to receiving Principalship Certification, the student will receive Certification as Supervisor of Instruction, 9-12.

A certificate based upon Level II preparation as a middle grade principal may be extended to secondary school principal, grades 9-12, upon completion of six semester hours of graduate credit which shall include, but not be limited to:

(1) Secondary school curriculum;
(2) Organization and administration of the secondary school; and
(3) Field experience in a secondary school.

For further details the student should contact the Graduate Office.

Supervisor of Instruction Certification Program

Requirements

The student must:

A. Submit transcript indicating completion of M.A. degree.
B. Submit copy of Standard Teaching Certificate of one of the following types certificates held:
Standard elementary 1-8, Standard elementary K-4, Standard middle grades 5-8,

Standard high school 7-12, Standard high school 9- 12, Standard - exceptional children
(except speech and communication disorders).

C. Submit evidence of three years of full-time teaching.
D. Submit two formal recommendations (forms in Graduate Office).
E. Show evidence of G.P.A. of 3.00 on graduate work earned.
F. Meet required cut-off point of the N.T.E.

Prerequisite Courses

EDUC 500	Methods of Educational Research
EDUC 501	History & Philosophy of Education
EDUC 511	Tests & Measurements
EDUC 502	Curriculum Design
	OR
EDUC 600	Advanced Curriculum
EDUC 520	Techniques & Materials for Classroom Reading Instruction
PSYH 600	Advanced Human Development
	OR
PSYH 650	Advanced Educational Psychology

Level I Certification Requirements

EDAD 645	School Organization and Administration
EDAD 654	Improvement of Instruction Through Supervision
EDUC 603	Elementary School Curriculum
	OR
EDUC 605	The Middle School Curriculum
EDUC 604	Secondary School Curriculum
EDUC 680	Research & Seminar in Supervision
PSYH 565	Psychology of Exceptional Children

Level II Certification and Rank I Requirements

EDAD 630	School Law
EDAD 660	School and Community Relations
PSYH 640	Group Processes
EDUC 670	Directed Field Project (guided study and/or research in Supervision)

Course Descriptions

Each course is offered for three semester hours of credit unless otherwise noted.

BIOLOGY

BIOL 561. Topics in Biological Science (3)

A lecture and discussion approach to topics and issues of contemporary importance and interest in the biological sciences. One topic will be extensively explored each term or semester that the course is offered. The course may be repeated when an alternate topic is emphasized. Possible topics include: Cancer, Immunobiology, Human Evolution, Human Reproduction and Development, Human Genetics, Plants and People, etc.

BIOL 600. Research Investigations (3)

An independent research problem in which the student must demonstrate his ability to employ the scientific method in carrying out an original scientific investigation. A typewritten and bound manuscript will be required. An examination may or may not be given, depending on the nature of the problem selected. Prerequisite: Permission of the instructor and approval of the head of the department.

CHEMISTRY

CHEM 421G. Biochemistry (3)

Study of the chemistry, energetics, and metabolism of biomolecules, such as carbohydrates, proteins, lipids, nucleic acids, enzymes and vitamins with reference to living systems. Prerequisite: CHEM 312 Organic Chemistry or its equivalent.

CHEM 561. Selected Topics in Chemistry (3)

Topics to be chosen from current and/or specialized areas of chemistry such as industrial or environmental chemistry and will vary according to students need. May be repeated for a maximum of 6 credit hours if topics differ. For secondary teachers of chemistry, physics and biology.

CHEM 600. Research Investigations (3)

An introduction to research in which the student must demonstrate an ability to use the scientific method by conducting an original scientific investigation. A typewritten report will be required. An examination may or may not be given, depending on the nature of the problem selected. Prerequisite: Permission of instructor and approval of the Division Chair and Dean of Graduate Academic Affairs.

ECONOMICS

ECON 601. Economics for Teachers (3)

This course is designed for teachers in any subject area, at any grade level, and assumes no background in economics. Its purpose is to share with teachers the variety and scope of opportunities to include economic education in whatever they teach. Teachers in this course discover that they already know and teach economics without realizing it, and learn of ways to expand this instruction, or to develop their own plans for teaching economics to their students. Teachers pursuing any advanced degree qualify for the course.

ECON 605. Consumer Economics for Teachers (3)

The principal objective of this course is to help teachers learn areas of consumer economics they can teach to their students. These topics may be applied at any level, K-12. The course will also provide education in consumer economics issues which will be of personal interest and use to teachers as consumers.

EDUCATION

EDUC 401G. Introduction to Counseling and Guidance (3)

Educational, sociological, and psychological foundations of counseling and guidance in schools, colleges and related service oriented agencies. Includes essential counseling and guidance services, policies, practice and procedures.

EDUC 440G. Introduction to Early Childhood Education (3)

Survey of the physical, emotional, mental, and psychological development of the child under ten, and the role of the early elementary teacher in working with such a child.

EDUC 441G. Teaching Social Studies (3)

Methods and materials for the teaching of elementary school social studies including kindergarten through eight curricula. The philosophies, terminology, and evaluation methods and materials will be included.

EDUC 468G. Educational Media (3)

A study of the multi-media approach in classroom instruction, with guidelines for the selection, production, evaluation, and use of audio-visual materials and equipment.

EDUC 500. Methods of Educational Research (3)

Types of research, selection of problems, collection and classification of data; organization, presentation, and interpretation of materials. Includes unit on computer use and practice.

EDUC 501. History and Philosophy of Education (3)

The historical antecedents of American education and the influence of various educational philosophies are explored. Particular attention is given to the main philosophical approaches to teaching, with emphasis on students developing a rationale and strategy for incorporating these ideas in the classroom setting.

EDUC 502. Curriculum Design (3)

Curricula organization, materials, and methods. Techniques for evaluating and constructing curricula. A unit addressing pupil needs resulting from exceptionality and multicultural differences is included.

EDUC 510. Statistics I (3)

Designed to aid teachers and administrators in their understanding and use of elementary statistical terminology and procedures. Statistical concepts useful in analyzing and interpreting data from published research are emphasized.

EDUC 511. Tests and Measurements (3)

Instruments and techniques for evaluating abilities, aptitudes, personality traits, and interests examined, and teacher-made evaluative instruments given special emphasis. Application of test results to vocational and educational guidance stressed. Special attention to the exceptional child in the evaluative process.

EDUC 520. Techniques and Materials for Classroom Reading Instruction (3)

A foundation course which includes a general review of the following reading skills: Word recognition, comprehension, and fluency. An in-depth study of the various approaches to teaching reading will be included. Students will become familiar with various techniques of instruction, the organization of the reading program, and a variety of reading materials. Simple methods of diagnosis are discussed.

EDUC 530. Diagnostic and Remedial Procedures in Reading (3)

Current research findings in diagnostic and remedial procedures in reading. Techniques for applying diagnostic instruments for locating causes of serious reading deficiencies are developed, along with suggested remedial procedures.

EDUC 532. Techniques and Materials for Remedial Reading (3)

Techniques and materials appropriate to the diagnosis and correction of reading difficulties. Course requirements include auditory and visual screening, diagnostic testing, and conduction of a clinical case study. Prerequisite: EDUC 530. Offered in odd numbered years only.

EDUC 535. Practicum in Teaching Reading with Clinic (3)

Practice involving traditional and behavioral science methodologies for remediation of reading disabilities. Extensive experience using group methodology that employs operant conditioning, respondent, and perceptual learning paradigms. Normally taken concurrently with PSYH 525 - Psychology of Reading. Offered in odd numbered years only.

EDUC 540. Laboratory Experiences in Elementary Education (1-8) (3)

A substitute for student teaching for elementary majors. Considers current problems and trends in teaching with laboratory periods for construction of classroom materials. Classroom teaching experiences with elementary children are included. Prerequisite: One year of successful classroom teaching experience. Summer only.

EDUC 542. Fundamentals of Kindergarten Education (3)

This course focuses on kindergarten curriculum, materials, organization of the kindergarten program, creative experiences for the pre-school child, parent education and home visitation, understanding of families, community resources, planning learning experiences, and evaluation of pupil programs and progress. Direct observation and participation in the kindergarten setting.

EDUC 545. Practicum in Kindergarten Education (6)

This course offers direct, guided, supervised experience with kindergarten children under the supervision of a qualified kindergarten teacher. Offered in even numbered years only.

EDUC 550. Foundations of Gifted Education (3)

A study on gifted education that will enable teachers to identify and work with the gifted student. Includes discussion of the various categories of giftedness other than I.Q. The course will also include screening and evaluating, needs assessment, and counseling techniques.

EDUC 551. Curriculum Development for Gifted Education (3)

This course involves designing curriculum models and curriculum guides, and developing scope and sequence charts for gifted education. The course offers exploration into the different types of programs and how these programs will be implemented. (It will make an attempt to fit the program to the giftedness of individual students.)

EDUC 552. Instructional Strategies and Materials for Releasing Creativity in Gifted Education (3)

The course focuses on instructional strategies and materials needed for releasing creativity for the gifted student. It will have a relaxed atmosphere conducive to drawing forth creative and inductive thinking on the part of the student. A variety of sources of materials will be used.

EDUC 553. Practicum for Gifted Education (3)

A supervised practicum course in gifted education for teachers who have successfully completed at least three years of teaching experience. The course emphasizes working directly with gifted students, writing units and lesson plans, developing learning centers, and doing demonstration teaching in the classroom with gifted students from the community.

EDUC 560. Supervision of Student Teaching (3)

Designed for classroom teachers who assume the responsibility of supervising student teachers. Experiences deemed necessary for developing students into effective teachers are considered. Prerequisite: One year of teaching experience or consent of the instructor.

EDUC 573. Computers in Education (3)

Designed for teachers, supervisors and administrators. A hands-on experience with microcomputer operation, introduction to BASIC, use of of software, and information about instructional and management uses in schools. No previous experience with microcomputers required.

EDUC 583. The Middle School (KET) (3)

Designed to aid educators in becoming more effective in meeting the needs of middle school students. The course emphasizes the unique intellectual, socioemotional, and physical characteristics of ten- to fourteen-year-old students. The course includes 15 half-hour programs telecast by Kentucky Educational Television and 6 seminar sessions on campus.

EDUC 595. Graduate Independent Study (1-3 hours)

Guided study and research toward the solution of specific educational problems encountered by students. Open to students at 5th year level.

EDUC 599. Master's Thesis (6)

EDUC 600. Advanced Curriculum. (3)
Study of theory, principles, practices, procedures in current curriculum development and reorganization. Prerequisites: EDUC 502, 603, or 604 or by permission of professor.

EDUC 601. Advanced Study of the Middle Grade Child (3)
Focuses on the physical, intellectual, personal, social and moral development of children in fifth through the eighth grades, ages 10-13. Socializing influences such as families, peers, school and mass media are included. The relationship of the transescent child to other age groups is considered.

EDUC 603. Elementary School Curriculum (3)
Curricular organization, materials, and methods currently used in elementary schools. Techniques for evaluating and constructing curricula.

EDUC 604. Secondary School Curriculum (3)
Curricula organization, materials, and methods currently used in secondary schools. Techniques for evaluating and constructing curricula.

EDUC 605. Middle School Curriculum (3)
Curricula organization, materials, and methods currently used in middle schools. Techniques for evaluating and constructing curricula.

EDUC 620. Teaching Reading in the Content Field (3)
Considerations of provisions and procedures for developing reading skills needed at the upper elementary and junior-senior high school level; various types of reading improvement programs, reading tests, and remedial programs at the upper grade levels. EDUC 520 or 530 recommended as prerequisites.

EDUC 635. Laboratory Experience in Education (K-4) (3)
A substitute for student teaching for early childhood (K-4) majors. The course will include current problems and strategies in teaching, with laboratory periods for construction of classroom materials. Classroom teaching experiences with young children will be included. Prerequisite: one year of successful classroom experience. Summer only.

EDUC 670. Directed Field Project (3)
Required in all Rank I programs. Following prescribed guidelines, the student works on a problem of practical significance in the classroom, school, or school district and prepares a formal project report. A written project proposal is prepared during the first month of the course, and students are expected to complete course requirements by the end of the term in which they are registered. Regular consultation with the project supervisor is expected. Prerequisites: Completion of 12 semester hours toward Rank I certification, and permission of the project supervisor.

EDUCATIONAL ADMINISTRATION

EDAD 630. School Law (3)
History of legal provisions for public education in the United States, interpretation and application of present school law, federal and state.

EDAD 640. School Finance and Business Management (3)
Federal, state and local financing of schools, equalization of educational opportunities, sources of school revenue, school budgets, business methods of accounting.

EDAD 642. Administration of Pupil Personnel Services (3)
Emphasizes roles and responsibilities related to the organization and administration of pupil personnel services.

EDAD 643. Pupil Personnel Accounting and Records Management (3)
Emphasizes systematic procedures in pupil personnel accounting and records management as related to the financing of public education and the protection of student rights.

EDAD 645. School Organization and Administration (3)
Organization of the modern public school, staff-teacher relationships, programs of studies, teacher records and reports, personnel and public relations, utilization of teacher time and physical facilities, and the impact of judicial policy making.

EDAD 650. School Plant and Transportation (3)
Planning, construction and maintenance of school plants, The operation and administration of programs for pupil transportation.

EDAD 654. Principles of Supervision (3)
A study of the purposes, principles, and techniques of educational supervision. Emphasis on the instructional aspects of school administration.

EDAD 655. The Elementary School Principal (3)
An analysis of the role of the principal in the modern elementary school.

EDAD 656. The Secondary School Principal (3)
An analysis of the role of the principal in the modern secondary school.

EDAD 657. The Middle School Principal (3)
An analysis of the role of the principal in the modern middle school.

EDAD 660. School and Community Relations (3)
An examination of school-community relationships. Special emphasis on leadership roles, operational modes, communication with regard to public school relations.

EDAD 675. Internship and Seminar in Administration (3)
A total of 90 clock hours in a practicum situation under a qualified administrator is required with a written record of experiences. Student qualifying for certification as Supervisor of Instruction must have experience under a general supervisor; students qualifying for elementary principalship must work under an elementary principal; students qualifying for secondary principalship must work under a secondary principal. Two seminars are held on campus.

If a student is pursuing elementary and secondary principalship certification, one-half time (45 hours) must be given to each area under the appropriate administrators. The student must give equal time likewise if working toward Supervisor of Instruction certification. Two seminars are held on campus. Prerequisites: EDAD 654 and EDAD 655 or EDAD 656.

EDAD 676. Research and Seminar in Elementary Education (3)
Designed to acquaint the sudent with recent research and to identify trends, innovations, and problems in elementary education. The student works in a practicum setting for 25 clock hours under a qualified administrator, reports on recognized research studies, keeps a log of practicum experiences, and participates in scheduled seminars.

EDAD 677. Research and Seminar in the Middle School (3)
Designed to acquaint the sudent with recent research and to identify trends, innovations, and problems in middle school education. The student works in a practicum setting for 25 clock hours under a qualified administrator, reports on recognized research studies, keeps a log of practicum experiences, and participates in scheduled seminars.

EDAD 678. Research and Seminar in Secondary Education (3)
Designed to acquaint the sudent with recent research and to identify trends, innovations, and problems in secondary education. The student works in a practicum setting for 25 clock hours under a qualified administrator, reports on recognized research studies, keeps a log of practicum experiences, and participates in scheduled seminars.

EDAD 680. Research and Seminar in Supervision (3)
Designed to acquaint the sudent with recent research and to identify trends, innovations, and problems in supervision. The student works in a practicum setting for 25 clock hours under a qualified administrator, reports on recognized research studies, keeps a log of practicum experiences, and participates in scheduled seminars.

ENGLISH

ENGL 401G Modern Grammar (3)
An intensive review of traditional grammar in combination with selected material from structuralist views of linguistic analysis and theories of transformational grammar. Attention is paid to the practical application of each. Offered in even numbered years only.

ENGL 402G. Advanced Composition (3)
For the student who wishes to become a more competent writer. Research papers, factual narratives, argumentation, and "creative" writing are assigned according to the needs and aptitude of the student. Offered in even numbered years only.

ENGL 419G. Composition for Teachers (3)
Review of basic elements of composition with regular writing assignments in both expository and argumentative modes. Techniques of marking and evaluation of student papers. Research techniques, a methodology for teaching students to develop a research paper and practical application of the methodology through the assignment of a research paper as an integral part of the course itself. (On demand.)

ENGL 421G. History of the English Language (3)
A study of the origins and development of the English language from Anglo-Saxon times to the present. Supplementary readings in early and medieval English history with emphasis on the effects of historical events on language change. Offered in odd numbered years only.

ENGL 451G. Modern Poetry (3)
American and British poetry, with consideration of ways of reading, criticizing, and writing verse in this century. Offered in odd numbered years only.

ENGL 521. Advanced Study of English Literature, 500-1700 (3)
Intensive study of some phase of English literature within this period. This course may be taken more than once providing that the course content is different. The class schedule will designate the specific content covered.

ENGL 522. Advanced Study of English Literature, 1700-Present (3)
Intensive study of some phase of English literature within this period. This course may be taken more than once providing that the course content is different. The class schedule will designate the specific content covered.

ENGL 541. Advanced Study of American Literature, 1600-1860 (3)
Intensive study of some phase of American literature within this period. This course may be taken more than once providing that the course content is different. The class schedule will designate the specific content covered.

ENGL 542. Advanced Study of American Literature, 1860-Present (3)
Intensive study of some phase of American literature within this period. This course may be taken more than once providing that the course content is different. The class schedule will designate the specific content covered.

ENGL 572. Special Topics in Literature (3)
Intensive study of a literary topic of special interest to secondary teachers. This course may be taken more than once providing that the course content is different. The class schedule will designate the specific content covered.

ENGL 595. Independent Study in English (3)
Independent study of research on an approved topic. May be repeated for credit.

ENGL 599. Master's Thesis (6)

ENVIRONMENTAL STUDIES

ENVS 469G. The Appalachian Environment (3)
Conservation of natural resources including soil, water, wildlife, and forests as interrelated components of the environment. Current problems relating to the environmental quality of the Appalachian region. Prerequisites: Two courses in environmental studies or biology and some knowledge of economics. Offered in Summer and on demand.

ENVS 550. Environmental Education Strategies (3)
A two-week workshop designed to foster a greater understanding of our environment through a combination of classroom and direct first-hand experiences. Conducted in cooperation with the USDA Forest Service and the Kentucky Division of Forestry. Offered in Summer only.

GENERAL SCIENCE

GNSC 401G. Science: Concepts, Processes, and Inquiry (3)
The student will examine the processes of science such as collecting data, measuring, predicting, formulating hypotheses, and experimenting. As materials from such new science programs as ESS, SCIS, IME, IIS and ISCS are used, the basic concepts as well as content of science will be reviewed. The inquiry approach to teaching a science will be stressed, along with learning theory and laboratory equipment use (commercial and handmade).

GNSC 525. Science for the Elementary Grades (3)
Application of modern learning theories and psychological foundations to the teaching of science in the elementary grades. Includes discussion of trends in science education, applications of research to teaching, and special problems that occur in schools.

GNSC 561. Topics in Physical Science (3)
Enrichment and updating elementary and middle grade school teachers on selected topics in astronomy, physical science and modern physics. Selected science journal off-prints will be reviewed. The course will include several lecture demonstrations and hands-on experience with some laboratory equipment.

GNSC 584. Plate Tectonics (3)
A theory which professional geologists scoffed at only a few years ago has revolutionized earth science in the last two decades. In this combination lecture/laboratory course, students will construct models and analyze actual data to reconstruct the historical development of this important theory.

GNSC 595. Research Investigations (3)
An independent research problem in which the student must demonstrate his ability to employ the scientific method in carrying out an original scientific investigation. A typewritten and bound manuscript will be required. An examination may or may not be given, depending on the nature of the problem selected. Prerequisite: Permission of the instructor and approval of the head of the department.

GNSC 599. Master's Thesis (6)

HEALTH

HLTH 451G. School and Community Health (3)
Reveals the relationship needed between the school and community to promote the total health of the population. Speakers are secured from official agencies, voluntary agencies, professional agencies, sponsored agencies, and other colleges. Small groups are utilized for discussion, field trips, and study through audio-visual aids. A variety of health areas are covered, including nutrition, physical fitness, drugs, alcohol, tobacco, human sexuality, and emotional health.

HLTH 475G. Critical Areas in Health (3)
Specific health problems confronting society today, with particular reference to secondary-age students.

HLTH 551. Readings in Health (3)
A course enabling the students to research the literature in the area of health, not only to increase basic knowledge, but to become acquainted with current trends and issues.

HLTH 582. Safety Education (3)
Accident problems in the home, in the school, at work, and on the highways are discussed with the purpose of being able to influence those who teach by preparing them in the various areas of safety. Groups specialized in a variety of safety areas, such as National Safety Council, American Red Cross, Bureau of Mines, and Kentucky State Police will be utilized.

HLTH 595. Independent Study (3)
Independent study in the field of health. May include practical field experiences.

HISTORY

HIST 421G. The Middle Period (1821-1850) (3)
A detailed examination of Jackson, politics, and the culture of the period. The course emphasizes the Age as one of chaos, and considers conflicting interpretations of the period.

HIST 446G. History of Russia (3)
Russia history since 1689.

HIST 470G. Twentieth Century America (3)
Selected topics on the Nation's history since 1900.

HIST 475G. Special Topics in History (3)
Designed for teachers in special areas of interest.

HIST 521. History and Culture of Appalachia (3)
This course focuses primarily on the impact of industrialization and modernization in Southern Appalachia since the Civil War. It emphasizes the great diversity of historical and cultural experience within the Region.

HIST 531. The American Revolutionary Era (3)
The background of the revolution. The Continental Congress and the Confederation at work; internal problems and strife; military and naval events; foreign relations; the road to final independence and peace. Offered in even numbered years only.

HIST 551. Civil War and Reconstruction (3)
A study of the Civil War and Reconstruction period in American history.

HIST 561.
Directed readings and class discussion on topics in world history since 1789.

HIST 595. Independent Study (3)

HIST 599. Master's Thesis (6)

MATHEMATICS

MATH 531. Topics in Modern Math for Elementary Teachers (3)
A study from a historical and theoretical viewpoint of topics in mathematics taught in elementary grades. Number systems, number theory, real numbers, logic, geometry, probability and statistics. Credit not granted to students who have completed both MATH 203 and 204. Offered in Summer only.

MATH 532. Modern Math Laboratory (3)
An active involvement in laboratory experiments with multibase blocks, sets, Cuisenaire rods, geoboards, etc.; development of skills in the production and use of teacher-made material; problem solving techniques. Prerequisites: MATH 531 or MATH 203-204 are recommended. Offered in Summer only.

MATH 595. Independent Study (3)

MUSIC

MUSC 520. Special Topics in Music History and Literature (3)
Intensive study and research pertaining to a selected composer, genre, or historical period.

MUSC 570. History and Literature of the Wind Band (3)
A survey of the history and development of wind band instrumentation and literature from the 18th century to the present.

MUSC 572. Advanced Choral Conducting (3)
Advanced study and drill in the areas of conducting and rehearsal technique, voice-building for choirs, score study, and performance practice.

MUSC 573. Survey of Choral Literature (3)
A study or works representing the major genres of choral music from the Renaissance to the present.

MUSC 574. Advanced Instrumental Conducting (3)
A practical study of instrumental conducting techniques, with emphasis on physical technique, score study, rehearsal procedure, and stylistic interpretation. Prerequisite: Undergraduate instrumental conducting or permission of the instructor.

MUSC 575. Computer Application in Music (CAIM) (3)
A survey of equipment and software available for computer assisted instruction in the public schools, including programming techniques for creating locally focused instructional modules.

PHYSICS

PHYS 401G. Principles of Modern Physics (3)
Elementary concepts of quantum mechanics. Selected topics in atomic and nuclear physics. Prerequisites: Two semesters of calculus.

PHYS 411G. Classical Mechanics (3)
For secondary teachers of physics. Motion of a particle; systems of particles and rigid bodies; moving coordinate systems; Lagrange's equations; small oscillations. Prerequisite: Three semesters of calculus.

PHYS 600. Research Investigations (3)
An introduction to research in which the student must demonstrate an ability to use the scientific method by conducting an original scientific investigation. A typewritten report will be required. An examination may or may not be given depending on the nature of the problem selected. Prerequisite: Permission of instructor and approval of the Division Chair and Dean of Graduate Academic Affairs.

PSYCHOLOGY

PSYH 402G. Counseling Theories and Techniques (3)
Basic theories, types, and techniques of counseling. Practice in individual and group techniques of interviewing.

PSYH 460G. Theories of Personality (3)
Nature of personality structure and dynamics. Classical psychoanalysis, social psychological, and stimulus-response theories included.

PSYH 461G. History and Systems of Psychology (3)
Origins of psychological thought within science and philosophy, tracing the development of systems and theories with German, British and American psychology.

PSYH 470G. Theories of Learning (3)
Basic fundamentals of learning theory as formulated by such theorists as Thorndike, Pavlov, Guthrie, Skinner, and Hull. Attention is given to the empirical support of various theories plus recent developments in cognitive psychology.

PSYH 525. Psychology of Reading (3)
Theory and applications of learning principles as applied to the reading processes. Major emphasis relates to respondent, operant, and perceptual learning paradigms. Offered in odd numbered years only.

PSYH 565. Psychology of Exceptional Children (3)
Survey course on children with special educational needs. The nature, cause and intervention of exceptionality.

PSYH 595. Independent Study (3)

PSYH 600. Advanced Human Development (3)
Psychological development from birth to maturity. Emphasis upon the principal concepts and problems in the development of the individual. Exceptionality and multicultural differences are considered.

PSYH 640. Group Processes (3)
A study of theory and practice in group dynamics. The process and implications of group processes, group counseling, and the human potentiality are explored.

PSYH 650. Advanced Educational Psychology (3)
The study of advanced psychological concepts and principles as applied to classroom management and student learning. Major emphasis is given to the translation of theoretical foundations of psychological knowledge to practical classroom applications. Behavioral, cognitive, and humanistic perspectives are explored in relation to teacher-student relationships.

PSYH 599. Master's Thesis (6)

SOCIOLOGY

SOCI 421G. Rural and Urban Sociology (3)
Comparative and interrelated study of urban and rural life considering the physical, institutional, social and economic factors of modern life in cities and in the countryside.

SOCI 433G. Social Change (3)
Introduces students to the problems of development and change. Examples will be drawn from Third World models of development, nationalism, imperialism, environmentalism, and human rights. The course is interdisciplinary, with emphasis on historical, economic, environmental and sociological aspects.

SOCI 460G. Sociological Theory (3)
The major theories which have proved useful in investigating the nature of society are examined as cultural products, ideologies, and scientific models. Special attention is given to major figures such as Comte, Durkheim, Weber, Merton, C. Wright Mills, White, and Sorokin in the emergence and convergence of their theoretical development. Lecture and discussion in a seminar setting.

SOCI 464G. Sociology of Deviance and Criminology (3)
This course will develop on understanding of the social definitions and implications of deviance. Various types of deviant behavior and relevant theories of society will be addressed.

SOCI 511. Educational Sociology (3)
An analysis of schooling and education in a social, historic, and economic perspective. Special attention is given to the socialization of the child within and outside the school in light of the dominant culture forces in Western Society.

SOCI 595. Independent Study (3)

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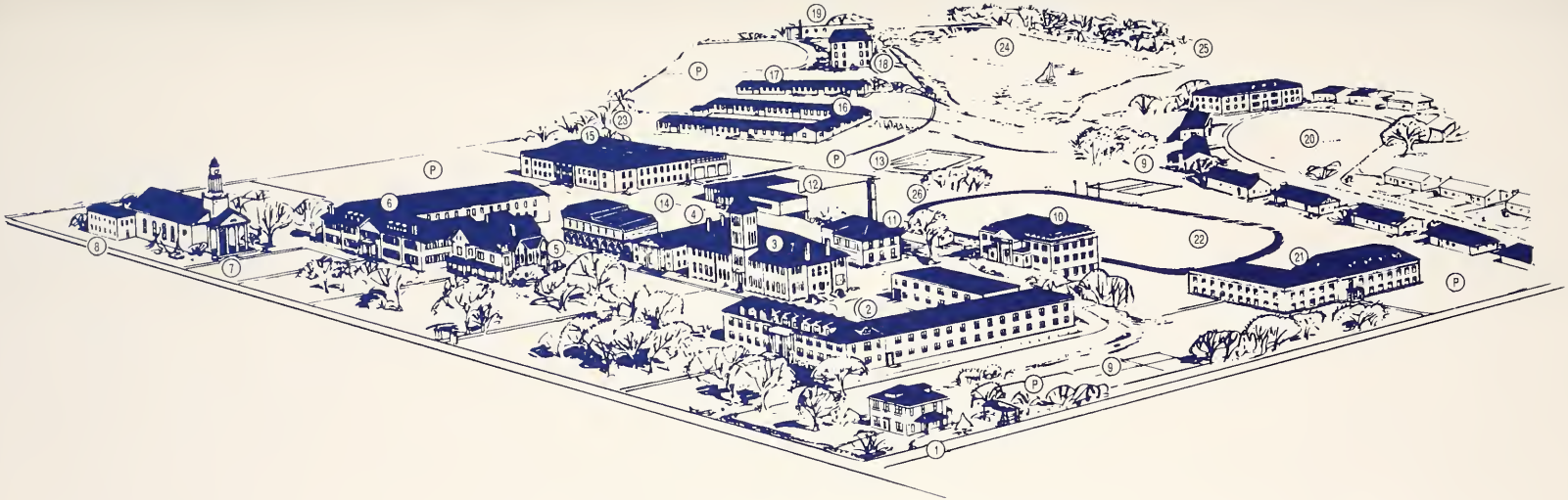

P. Parking
1. Baldwin Place, President's Residence
2. Stevenson Hall, Men's Residence Hall
3. Centennial Hall Historic Landmark, Classroom Building
4. Abigail E. Weeks Memorial Library & Annex
5. Speed Hall, Administration Building
6. Pfeiffer Hall, Women's Residence Hall
7. Conway Boatman Chapel
8. Fine Arts Building
9. Tennis Courts
10. Soldiers and Sailors Intramurial Center
11. Campus Post Office/Data Processing Center
12. Patridge Student Center & Minton Cafeteria
13. Colonel Harland Sanders Baseball Field
14. Religious Life Center
15. Physical Education Building, Gym, and Swimming Pool
16. College Courts, Married Students' Apts.
17. College Courts, Faculty and Staff Apts.
18. Lakeside Office Facility
19. Lakeside Social Sciences Center
20. College Park Drive, Faculty & Staff Residences
21. Mahlon Miller Science Center
22. Burch-Nau Football Field
23. Football Offices/Weight Training Facility
24. Maintenance Building & Shops
25. College and Community Recreation Park
26. Jack C. & Juanita Phillips Athletic Complex

UNION

UNION COLLEGE

BARBOURVILLE, KENTUCKY

"Committed to Excellence"

CATALOG 1992-93

Union College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award Associate, Bachelor, and Master level degree, by the Kentucky State Department of Education, and is approved by the University Senate of the United Methodist Church.

It is the policy of Union College not to discriminate on the basis of sex, race, color, disability, age, or national or ethnic origin in the admission of students, in its administration of educational or national programs, scholarships, loan programs, or other school-administered programs, or in athletic participation. Inquires should be directed to Mr. Edward H. Black, Affirmative Action Officer.

UNION COLLEGE CATALOG

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Grants, Scholarships, Work-study and Loans ..... Director of Financial Aid
Transcripts, Academic Records, Veterans Affairs ..... Registrar

TELEPHONE COMMUNICATION

A campuswide network of telephones enables the caller to reach any administrative or staff office by dialing the central switchboard. After 11 p.m., emergency calls for students may be directed to their dormitory counselors.

Central Switchboard ..... (606) 546-4151
Admissions Office 1-800-489-8646
Counselor, Pfeiffer Hall ..... (606) 546-3421
Counselor, Stevenson Hall ..... (606) 546-3659
FAX number ..... (606) 546-2215

DR. JACK C. PHILLIPS

UNION COLLEGE A PLACE TO BE

For almost a decade it has been my pleasure to take this particular opportunity to welcome you to Union College on behalf of our faculty, staff, and students. Mrs. Phillips and I hope that you will review this catalog carefully and then make a decision to attend Union College. Should you have any questions, you need only call any of our faculty, staff, or this office, and we will attempt to respond appropriately.

As you prepare your life for viable and important employment, as well as creative living, it is vital that you choose a college that can offer you the upmost in academic excellence, coupled with a strong Christian environment. Union is possibly the experience you need. The College's commitment to you is to help you find the Union experience. Please come and join the family!

With an enrollment of more than 1,000 students, including both graduate and undergraduate persons, Union College is committed to excellence in all phases of its life. The College offers the Bachelor of Arts, the Bachelor of Science, the Bachelor of Music, and the Master of Arts in Education Degrees. It also offers a Rank I Program beyond the Master's level, as well as various associate-degree and certificate programs.

Located on the historic Cumberland Gap Parkway in Southeastern Kentucky, just 17 miles from I-75, Union is the first College in this tri-state area. Union is proud of its more than 8,000 graduates with over 3,000 having the Master of Arts in Education Degree.

The Union tradition reaches out to the students, and the College is pleased that you are interested in our undergraduate program. As you peruse these pages, you should find encouragement for attending this very excellent institution of higher learning.

Sincerely,

Jack C. Phillips

Jack C. Phillips
President

A History of Service

Union College was founded in 1879 by a group of progressive citizens of Barbourville who formed a stock company and secured the main part of the present campus. In 1880, the first building was formally opened on the site of what is now known as Centennial Hall.

The College was purchased by the Kentucky Conference of the Methodist Episcopal Church in 1886, and Daniel Stevenson was made president of the reorganized institution. A major bequest from Mrs. Fanny Speed led to the construction of Speed Hall, Stevenson Hall, and the Classroom Building (now known as Centennial Hall).

The college department was discontinued in 1908, and for eight years the institution was maintained as a Junior College, an academy, and an elementary school. It became a *bona fide* college again in the presidency of Ezra T. Franklin, who inaugurated a program of development during which the Memorial Gymnasium and a home for the president were built. In 1927, the College was accredited by the University of Kentucky as a four-year college of A grade.

President John O. Gross emphasized the improvement of the curriculum and the building of a strong faculty. In 1931, Union was accredited by the University Senate of the Methodist Episcopal Church, and in 1932, full accreditation was realized when it was made a member of the Southern Association of Colleges and Schools. The Board of Regents of the University of the State of New York placed Union College on its accredited list in 1937.

In Conway Boatman's twenty-one years of leadership, the College achieved marked progress in both its educational programs and in plant improvement. Seven new buildings were completed and others were enlarged. The curriculum was expanded, endowment funds were increased, and a markedly improved program of faculty salaries and benefits was adopted.

Mahlon A. Miller was elected to the presidency in 1959. In 1960, a Master of Arts in Education degree program was introduced, and plant expansion continued with the development of College Park, a faculty residential area, followed by the construction of additional student housing, a physical education building, a student center, and a science center, completed in 1973.

President Jack Carter Phillips began his duties at Union College in January, 1983.

Dr. Phillips earned the Bachelor's Degree at Birmingham-Southern College and the Master of Divinity Degree at Vanderbilt University. He received an honorary Doctor of Laws Degree from Union College in 1981. He was lauded at that ceremony for "notable achievement in the field of institutional fund raising and, in particular, service to the colleges and universities related to the United Methodist Church."

A native of Scottsboro, Alabama, Dr. Phillips served in the U.S. Marine Corp from 1954 to 1957.

This past year found the College involved in a $3 million building program. The following projects have been completed: a $2.1 million cafeteria/Student Center; renovation of the Soldiers and Sailors Memorial Intramural Center; creating of soccer, baseball, women's softball, and men's football fields; the building of a new organ for the Chapel; and the placing of telescopic seating in the gymnasium. There is now a commitment to build a $10 million endowment, $5 million for student aid and $5 million for faculty enrichment.

Under Dr. Phillips' leadership the College has experienced significant enrollment increases every year. A new 37,000 square foot library addition with computer facilities and a modern well equipped learning resource center opened in 1987.

The College has always accepted a special mission to Appalachia, a commitment which is now being strengthened with unique academic programs based on regional characteristics, expanded student financial aid, student community-service projects, and new career-oriented curricula.

The doors of Union College are open to all who aspire to a more fulfilling life, without regard to race, color, sex, disability, national or ethnic origin.

Interested and prospective students are encouraged to arrange a visit to the campus by calling the Admissions Office 1-800-489-8646.

STATEMENT OF PURPOSE (Mission Statement)

Union College is an independent liberal arts institution of higher education, affiliated with the United Methodist Church. It is dedicated to maintaining an academic and community environment that stimulates intellectual curiosity and scholastic competence, encourages an understanding of and commitment to the Christian faith, and promotes the development of values. Students are admitted to Union College without regard to race, color, creed, age, sex, or physical disability.

Union College is committed to providing students with the resources necessary for a quality education. The faculty is characterized by sound scholarship and a deep concern for the needs of students. Faculty advisors assist each student to develop career goals and to select academic courses of study appropriate to these goals. Most classes are small, many types of educational experiences are provided, and academic, career and personal counseling are available. Students have access to a wide variety of scholarly and technical resources for their education.

The academic program is designed to meet the College's mission of providing its students with the opportunity to increase their general knowledge and understanding of the world around them and to obtain the skills necessary to compete in the job market. The basic undergraduate liberal arts curriculum makes available to students a large body of knowledge drawn from the humanities, natural sciences, and social sciences. Union offers developmental and remedial programs in basic skills. Majors and areas of study prepare the student for a variety of careers and professional or graduate study. Plans of study in pre-professional, technical and skills-oriented fields enhance post-graduate employment opportunities. In addition, Union offers graduate programs in education and associate degrees in various fields. These latter programs are offered to meet regional needs. A number of courses in both the undergraduate and graduate programs are taught off-campus in various communities within the primary service area of the College. Finally, the College may offer credit and non-credit continuing education courses for the community.

Central Appalachia is Union's primary service area and home to the majority of the College's students. Union affirms a special concern for improving the quality of life in Appalachia and the College strives to serve the region in a number of ways. Technical and skills-oriented plans of study are designed to improve the human resources of the region. The undergraduate and graduate education programs help meet the personnel needs of the public school system. In order to educate people about Appalachian life, traditions, and problems, Union offers Appalachian studies aimed both at local students and visiting students from other institutions. To further its mission of helping the community, a number of programs are made available to area residents, including the educationally disadvantaged. Many College staff members also participate in community service. Finally, Union trains students for service-oriented professions in this region, including teaching and the ministry, and serves as a cultural center for the community.

GOALS FOR GENERAL EDUCATION

A. COMMUNICATIONS SKILLS

A primary goal of Union College's academic program is to help students develop and improve their communications skills. This includes both *expression* (the ability to convey information and ideas to others) and *comprehension* (the ability to receive and understand information and ideas conveyed by others). An acceptable level of *expression* includes the ability to write and speak in a clear and cogent fashion, while *comprehension* requires the ability to read college level material, listen to lectures and retain and understand the content of the material presented. Therefore, a Union student should, by graduation, be able to:

1. write a clear and cogent essay based on his or her own ideas which obeys the basic rules of grammar, spelling, and punctuation;
2. prepare and deliver a logical and organized oral presentation;
3. read and integrate information into previously acquired knowledge; and
4. listen to a lecture or presentation and recall and understand the major points.

B. ETHICS AND VALUES

As an institution related to the United Methodist Church and one fostering Christian values, Union College does attempt to develop ethical standards as an important part of any student's education. Students should learn to think about and discuss values and ethics and become aware of the major religious and ethical perspectives of humankind. The College encourages an awareness of the Christian faith and believes that students should develop a tolerance toward the viewpoints of others. Upon graduation, the Union student should be:

1. familiar with today's major religious and ethical ideals, and how they developed;
2. tolerant toward and respectful of these different views and ideals; and
3. able to think about and articulate problems and issues related to ethics and values.

C. GENERAL KNOWLEDGE

No education is complete without the acquisition of a solid base of general knowledge. Without such knowledge, the student will not be capable of developing his or her thinking and reasoning abilities. With this knowledge, students will have a storehouse of information that will help them more effectively to exchange ideas, thoughts, and feelings with others. The constant expansion of and change in the corpus of information means that it would be futile to attempt to define precisely on a long-term basis what a student should know. Nevertheless, there are certain areas with which the student should be familiar, at least in general terms. By graduation, the Union student should have:

1. an ongoing interest in and appreciation for music, literature, and the arts, and the traditions on which these fields are founded;
2. an informed acquaintance with the natural and social sciences and technology, and a general awareness of their continuing impact and development through the ages; and
3. acquired reasonable mathematical and quantitative skills.

D. CRITICAL THINKING AND PROBLEM SOLVING

The ability to think critically and to analyze and solve problems is an absolutely essential skill. In an increasingly complex world characterized by a constantly expanding flow of information, it becomes more and more necessary for educated persons in every field to be able to arrive at responsible and considered decisions. A college graduate who lacks these abilities is unlikely to succeed in any area of endeavor. Thinking and analysis develop over many years and cannot become fully developed during an undergraduate career. Union desires that its students make progress in this direction, however, by developing or improving upon their ability to:

1. understand abstract ideas;
2. analyze problems that involve complex sets of facts and relationships; and
3. think and reason in a critical, logical, and objective fashion.

E. CONTEXT

Understanding the modern world depends upon an adequate comprehension of the forces that continue to shape societies. There are many different interpretations of and explanations for the current world situation, and students are free—and encouraged—to develop their own opinions. During the college years, students have the opportunity to learn about the context of modern civilization—its antecedents and structure. By the completion of their undergraduate program, students should have:

1. increased their understanding of how the modern world works, including its peoples' increasing interdependence;
2. acquired a basic knowledge and appreciation of other cultures; and
3. developed an interest in, and comprehension of, current events and their history.

F. LEARNING SKILLS AND PERSONAL DEVELOPMENT

The development of learning skills and personal development are important goals of all programs at Union College. In addition, courses are offered which are specifically designed to develop learning skills where these are lacking, assisting students to"learn how to learn". Students are also expected to become familiar with ways in which the library supports and complements a liberal arts education and how libraries can serve them throughout their lives. All students are offered the opportunity to use computers to assist their educational experience and to learn how the computer can be useful to them personally.

Commitment to the goal of personal development is evidenced at Union College by the requirement that all students extensively experience the liberal arts. Of special importance is Union's mission to serve the Appalachian people by making a liberal arts education available to the community. Students graduating from such a program will have developed a degree of confidence in their ability and will be prepared to go on in life with the expectation of success in a chosen endeavor. Appalachian students will also develop an increased appreciation of their own culture, place, and importance in the world.

A STATEMENT OF VALUES

Union College is dedicated to preparing students for living informed, socially useful, personally fulfilling, and spiritually vital lives. This commitment involves using knowledge within a context of Christian values. Although it is recognized that as an educational institution Union College has an obligation to help students understand other value systems and their effects when translated into specific areas of human activity, as a United Methodist Church-related college Union affirms an institutional stance based on Christian values such as have evolved in the Judeo-Christian tradition and are contained in the Old and New Testaments. Our intent is both to confess and to practice the christian faith in all our endeavors.

IMPLICIT IN THIS STATEMENT OF VALUES IS THE REQUIREMENT THAT UNION COLLEGE COMMIT ITSELF TO THE VALUES ENUNCIATED BY ASSURING TO THE MAXIMUM EXTENT POSSIBLE:

To Its Students

(1) the fullest of opportunities to receive a quality liberal arts education.

(2) strong attention to, and genuine concern for, each individual in the college community, including emphasis upon the unique value of each person.

(3) a continuing concern that they learn to appreciate and accept life styles that reflect integrity, honesty, compassion, and social responsibility.

(4) a commitment to provide the experiences necessary to acquire a meaningful understanding of and dedication to Christian love and service to both God and neighbor.

To Its Faculty and Staff

(1) a campus atmosphere of responsible academic freedom dedicated to the constant search for truth.

(2) an academic community dedicated to openness and acceptance of its pluralistic composition, including personnel policies and practices that are recognized without regard to race, creed, sex, color, physical handicap, or national origin.

(3) a constant reminder of the power of Christian example.

To Its Alumni, Benefactors, and the Parents of Its Students

(1) faithful and responsible stewardship of all funds and gifts entrusted to the College.

(2) continuance of meaningful traditions, particularly those unique to a church-related institution, while at the same time encouraging the exploration and implementation of new value-centered activities especially of the type that have strong Christian relationship.

(3) continuing appreciation for the rich heritage of Union College as an independent, one-sectarian, church-related institution in the Christian tradition.

To The United Methodist Church

(1) acceptance of Jesus Christ as God's revelation of Himself, and of the Holy Spirit as God's continuing presence in life.

(2) acceptance of the moral standards which have evolved in the Judeo-Christian tradition as our ideals for living, working and witnessing in an academic community and as the standards for our teachings and personal example.

(3) sensitivity to and a conscientious effort directed toward the satisfaction of the spiritual needs and concerns of the college's students, faculty, and staff.

(4) meaningful responsiveness to and support for the United Methodist Church.

To Barbourville, Knox County, and the Appalachian Area

(1) continuing appreciation that Union College is an integral, social, educational, and spiritual part of the Barbourville and Knox County communities, and of Appalachia.

(2) dedication of the college's resources in teaching, research, and service to the enrichment of the communities of which Union College is a vital part.

(3) a commitment of the personal resources represented by the college's students, staff and faculty to local churches of the immediate and larger community.

STEVENSON HALL

ADMISSIONS AND GENERAL INFORMATION

ADMISSION REQUIREMENTS

The criteria for admission are used to identify those who are most likely to complete a college program of studies. The Admissions Office evaluates each applicant on an individual basis and acceptance decisions are determined on the quality of academic achievement; high school grade point average, class rank, and the scores of the ACT (American College Testing Program) or SAT (Scholastic Aptitude Test of the College Board).

Applicants are required to submit an official transcript from an accredited secondary school, or a high school equivalency certificate based on the GED tests. The secondary school transcript should include four years of English, two years of mathematics, two years of social studies, and two years of science. The study of a foreign language is recommended.

Union College requires that an official transcript from each college or university attended be forwarded to the Admissions Office before an admission decision is made.

The College processes applications on a rolling admissions basis. An application is considered complete when all academic credentials including the secondary school and/or college transcript(s), and results of the ACT or SAT have been received.

Procedures For Admission

Application for Admission

The application for admission is available from the Admissions Office, Union College, Barbourville, KY 40906. A processing fee of $20.00 is required before an application will be considered for admission.

Enrollment Deposit

After official notification of acceptance to the Fall semester, all new students are required to submit a $25.00 enrollment deposit which is applied toward tuition. This deposit is refundable until August 1. If you are applying for financial aid your deadline is extended until you have been notified of your award. At the time of acceptance of your financial aid award you have two weeks to submit your enrollment deposit.

Secondary School Transcript

Applicants must authorize the release of their (high school) transcript by signing the application form. The Admissions Office will write to the applicant's high school for an official copy of the transcript.

Entrance Tests

All candidates are required to take the American College Test (ACT) or the Scholastic Aptitude Test (SAT). Applicants should have the results forwarded to Union College. The Union College code number is 1552 for the ACT and 1825 for the SAT.

A test application blank and bulletin of information may be obtained from the secondary school guidance office or from Union's Admissions Office.

Summer Orientation

A one-day Summer Orientation program is required for all students who are entering Union College for the first time.

The program includes placement testing, academic advising, registration, and financial aid counseling and is designed to help students make a successful transition to the College.

Admissions Information for Other Programs

High School Junior Program

A student who has completed the junior year of high school may qualify for the High School Junior Program. The student must have a "B" average and must pass ALL sections of the Placement Test given by the College to be admitted to the program. Students who have a composite of 21 or above on the ACT are exempt from taking the Placement Tests. The student may then enroll for 6 hours or less in any one term for one-half the established summer tuition rate. This scholarship terminates when the student graduates from high school.

GED Acceptance

An applicant may be admitted on a high school equivalency certificate based on the General Education Development Tests, provided that the scores earned are equal to or above the minimum recommended for college entrance by the American Council on Education.

Advanced Placement

Students who have successfully passed one or more of the Advanced Placement tests of the College Entrance Examination Board may ask for advanced placement and credit when they submit their application. The Office of the Registrar will decide on the amount of credit to be granted and the college course that may be considered for equivalency. A score of 3 or higher is required for such action.

Early Start Senior Summer Program

A high-school graduate who has not attended college since graduation may be eligible for the Early Start Senior Summer Program. To qualify a student must meet admission standards required of all students, must graduate in the upper 50% of the class, and must have a minimum ACT English score of 20 or SAT Verbal of 420.

Accepted students who enroll for courses in either summer session will be provided a scholarship for one-half of the tuition charges. If the student enrolls for and completes twelve hours during the summer sessions, there will be no room charge to live on campus. All students must pay a $50.00 refundable room deposit.

Students who enroll in and complete twelve hours of college credit with a grade point average of 3.0 ("B" average) will receive a $250.00 scholarship as a full time student in the fall. If the 3.0 average is maintained in the fall, the student will receive another $250 scholarship in the spring. After the spring semester, the scholarship terminates.

Admission of Adult Students

Students 25 or older are not required to furnish ACT or SAT scores. Applicants who lack the high school diploma or GED are urged to contact Union's Adult Education office for assistance.

Admission of International Students

International students must complete the regular admission process. ACT or SAT is not required for admission but is required if a student is claiming scholarship eligibility. A nonrefundable application fee of $20.00 should accompany each application for admission to the College. After the student's credentials have been received and the student is accepted, an I-20 will be issued. The College must receive payment for the student's first semester costs for tuition, room and board, and fees before registration can take place and the student is allowed to move into the dormitory.

In order to be considered for admission, an international student must show English proficiency with a minimum score of 550 on the Test of English as a Foreign Language (TOEFL), or have completed level 109 from any English Language Services (ELS) center or have a score of 80 or above on the Michigan Placement Test.

When the admission process is completed, an international student is obligated to stay at Union for at least one year. No official transcript or recommendation will be released until the student fulfills the year's obligation. If a student leaves before one year, he/she will be reported to Immigration and Naturalization Services as being out of status. One year is interpreted as two full semesters, excluding summer sessions.

The student must pursue a full course of study. Those who drop to part-time status must by law be reported to the Immigration and Naturalization Service. No visas and/or passports will be renewed until the student's account is paid in full.

Transfer Policy

The transfer applicant is required to submit:

1. An application for admission.
2. An **official**, sealed transcript from each college/university previously attended.
3. An official high school transcript and ACT or SAT scores are required of all students transferring fewer than thirty-one semester hours. Students transferring more than thirty-two semester hours are exempt from the Placement Tests.

A transfer student applying to Union College must be in good standing with the previous college and be eligible to return to that school.

Union College will record a summary of transfer credits, indicating the total number of hours accepted and the quality point average at the sending institution. Union accepts only transfer work in courses with a grade of "C" or above. This policy applies only to credits transferred on a course-by-course basis, not to junior college students who transfer entire degree programs.

Sixty-seven semester hours is the maximum number of hours that will be accepted from a junior college. Transfer students from a four year school must satisfactorily complete thirty

semester hours at Union College. For an associate degree, a transfer student must satisfactorily complete eighteen semester hours at Union College.

Transfer credits will be accepted at the level of the initiating institution. Therefore, a student transferring from a two-year institution must accumulate forty semester hours of upper division credit while a student at Union College before they are eligible for graduation. Of that work, at least six semester hours must be included in any minor or in any twenty-four hour major; twelve semester hours must be included in any thirty hour major; and at least eighteen semester hours of upper division course work must be included in any fifty-four hour major or in an area of concentration.

FINANCIAL AID & FEES

TUITION AND FEES

College Expenses

The academic year is divided into two regular semesters, Fall and Spring. In addition, a special May Interim and two special summer sessions are offered, convening in the months of May, June and July respectively. Applicable tuition and fees are as follows.

Undergraduate Expenses (per regular semester)

Tuition (12 to 17 semester hours) and Activity Fee.....$3,100.00
Room and Board* (19-meal week).....$1,355.00
Private Room (Additional).....$ 100.00
Total for Boarding Student
— Regular Room.....$4,455.00
— Private Room.....$4,555.00
Part-time tuition for registering less than 12 or more than 17 semester hours, per semester hour.....$ 145.00
(Undergraduate students over age of 50 pay 50% of the established tuition rate.)

Graduate Expenses

Full-time tuition (12 to 17 semester hours).....$3,100.00
Part-time tuition (per semester hour).....$ 145.00

Summer Session Expenses 1992

Tuition, Undergraduate (per semester hour).....$ 145.00
Tuition, Graduate (per semester hour).....$ 145.00
Room and Board (19 meals per week) each term, 5 weeks**.....$ 430.00
Room and Board (Sunday dinner through Friday lunch — 15 meals per week) each term**.....$ 355.00
Private Room, each term (additional).....$ 20.00

May Interim Term Expenses 1993

Tuition, Undergraduate (per semester hour).....$ 145.00
Tuition, Graduate (per semester hour).....$ 145.00
Room and Board (19 meals per week).....$ 255.00

Note: May Interim tuition may be waived for a full time student who carries 14 semester hours or less in the preceding spring semester.

Other Expenses

The fees listed below are not a part of the traditional tuition and board and room charges.

Audit Fee (per semester hour).....$ 15.00
Late registration fee***.....$ 15.00
CLEP (per test).....$ 35.00
CLEP Credit Recording fee (per course equivalent for Subject Tests only).....$ 30.00
Portfolio Fee (per semester hour).....$ 30.00
Contract Course (per semester hour).....$ 25.00
Examinations:
late final examination fee.....$ 15.00
credit by examination (Institutional) (per credit hour).....$ 25.00
Graduation Fees:
Associate degree or Diploma.....$ 25.00
Bachelor's degree.....$ 30.00
In absentia.....$ 25.00
Late Fee.....$ 5.00
Music Lessons:
Part-time and Special Students (per semester hour).....$ 80.00
Applied Music (per semester hour).....$ 65.00
Private Lesson (Continuing Education) (per semester hour).....Varies
Transcript-after first copy (one week's notice required).....$ 3.00
Student Teaching Fee.....$ 100.00
Appalachian Semester Fee.....$ 100.00
Special Lab or Studio Course.....$ 25.00
College Court Rental, per month (all utilities furnished).....$ 160.00

*Vacation periods are not included in the above quotations. Dormitories and food service are closed during vacations and other periods as noted in the undergraduate calendar. The College reserves the right to entertain delegates to conventions and other related groups in the residence halls during vacation periods. Students will be notified in advance of such contemplated occasions and assurance given regarding the safeguarding of their personal property during such occupancy.
**All board charges are subject to change without notice, pending contract agreement with the food service.
***Late registration fee can be waived by the Registrar for sufficient reason if permission is requested in advance.
Expenses for May and Summer Sessions are effective June 1, 1992.
Tuition, fees and other expenses are subject to change. All changes will be announced in the class schedule or through the media.

PAYMENT POLICY

I. Financial Clearance

A student will be cleared for registration only if any previous balance has been paid. The new semester's account must then be paid in full, or a signed payment plan first installment completed. May and summer sessions must be paid in full at the date of registration — no payment plan is permitted for May or summer sessions.

Authorized financial aid will be credited to the student's account and a payment plan set up for the balance. In case the financial aid is anticipated but not yet authorized, the student must pay as a first installment one third of the total costs.

II. Finance Charge

A monthly finance charge of one and a half percent (18% APR) will be added to the unpaid balance on student accounts at noon on the last working day of each month.

III. Payment Plan

If the new semester's account cannot be paid before registration, a payment plan can be completed and a first installment paid down. The payment plan requires one-third payment on each of the following dates.

1. On or before fall semester or spring semester registration — one-third.
2. Due September 20 (fall semester) or January 20 (spring semester) — one-third.
3. Due October 20 (fall semester) or February 20 (spring semester).

These dates will allow students who participate in the payment plan to avoid all finance charges, if payments are paid on time. Finance charges will go on all Fall balances beginning the last working day of October, and all Spring balances beginning the last working day of February.

IV. Unpaid Accounts

Any student who owes a balance on his or her account after November 15th (fall) or March 15th (spring) may be subject to withdrawal procedures.

A student having any unpaid balance will not be cleared for the release of an official report of grades, a transcript of credits, or a diploma.

Should collection efforts become necessary to collect an unpaid balance, the student will be responsible for all costs of collection including collection agency and attorney fees.

REFUND INFORMATION

Since faculty contracts and other commitments are made by the College for the entire year in advance, the following refund schedule has been established in order that the College and the student may share the loss equitably when it is necessary for a student to withdraw or make a change in his or her program.

1. A student is considered to be enrolled until he or she completes drop/withdrawal procedures. Necessary forms must be obtained from the Office of the Registrar. All refunds will be based on the date these drop/withdrawal forms are completed and returned to the Office of the Registrar.
2. A full refund may be obtained for a class only if a student has not attended beyond the first session and completes drop/withdrawal procedures with the Office of the Registrar.
3. Any portion of board charges unused up to date of withdrawal will be refunded, except that a full week's board will be charged for any fraction of a week.
4. Tuition and room charges will be refunded on the following basis:

   Regular Semester — Twenty percent of the total for tuition and room will be charged the first week, 40% the second week, 60% the third week, 80% the fourth week. No refund will be given after the fourth week. Any part of a week will be treated as a full week. Refund is based on the tuition charges less $10 student center allocation, $1 class dues, $1 Student Government Association fee, $3 for I.D. card, and $25 activity fee.

May Interim and Summer Sessions — Withdrawal up to the end of the first week will permit a 50 percent refund. No refund will be made after the end of the first week. Any part of a week will be treated as a full week.

5. **Refund of Overpayment on Student Account** — If a student makes an overpayment on his or her account, a written request for refund must be submitted to the Business Office within one year after the end of the last academic term for which the student was enrolled.

6. **Room Reservation Deposit** — This deposit will be refunded if the request is made in writing not later than August 1 for the fall semester or 30 days before the opening of any other semester for which the contract is first effective. Students, once enrolled, must submit a written request to the Vice President for Student Life and Dean of Students at least 30 days before the end of the term, for cancellation of the contract. This deposit will be refunded within 60 days upon receipt of written authorization by the Vice President for Student Life and Dean of Students indicating that the depositor is no longer enrolled as a student at Union College and that he or she has left the housing facility undamaged and does not owe other bills. The request for this authorization must be made within one year after the end of the academic term for which the student was enrolled.

7. **Enrollment Deposit** — $25.00 will be refunded upon receipt of written request prior to August 1 for the fall semester or 30 days before the first day of class for any other academic session. Refund requests should be submitted to the Admissions Office.

FINANCIAL ASSISTANCE

Student expenses. In planning to attend Union College a student should expect the following typical expenses for an academic year; tuition and general fees $6,200, room and board $2,710, books and supplies $500. In addition, allowance should be added to these figures for personal expenses, medical insurance, transportation, and extra charges for special courses (such as laboratory fees, etc.). The Office of Student Financial Aid will consider the total costs for attendance, including the items listed above, when making a financial aid commitment.

Purpose of financial aid program. In addition to its own scholarship funds, Union College participates in all federal programs including the Pell Grant program. Residents of Kentucky are also eligible to receive state tuition grants and loans. Information on Union College scholarships will be found on the following pages.

Students applying for financial aid are considered for all programs for which they are eligible. The amount of financial aid awarded is generally a combination of grant, loan, and employment, and is based on the financial need of the student. Need is determined by subtracting the resources of the student and the contribution of his or her parents from the total student expenses. The parents' contribution is estimated on the basis of the amount of their income and assets as well as a consideration of taxes, medical expenses, and other liabilities of the family. An independent, objective, nationally recognized method of analysis developed by the College Scholarship Service is used to evaluate the family's financial circumstances. All financial aid awards to students are determined by Union College's Office of Student Financial Aid.

Procedures for applying for financial aid. Students must apply for financial aid by submitting a Financial Aid Form (FAF) to the College Scholarship Service. Students applying by March 15 will have a greater opportunity. However, financial aid will still be available after this date. The FAF is used to apply for the Pell Grant, the Kentucky Tuition Grant, the Supplemental Educational Opportunity Grant (SEOG), College Work-Study, Perkins Loan (formerly National Direct Student Loan) and any institutional funds.The FAF may be obtained from a high-school guidance office or the Office of Student Financial Aid. Students should specify 1825 as the code number for Union College in the appropriate section of the FAF.

A Financial Aid Notification along with information about any aid offered will be sent from Union College to each student who applies.

Procedures for reapplying for financial aid. A student must reapply for financial aid each academic year. However, aid usually continues at the same level each year unless a student's resources or the expected contribution of their parents change. All enrolled students receiving aid automatically receive information about applying for renewal awards. Other enrolled students should request applications by February 15.

Students who fail to maintain a satisfactory level of achievement may not receive the following types of financial aid: Pell Grants, Supplemental Education Opportunity Grants (SEOG), KHEAA State Grants, Union College Scholarships and Grants, College Work Study, Perkins Loans, Stafford Loans (GSL), PLUS/SLS Loans, other aid involving federal or state sources and funds associated with Union College. A student whose academic performance falls below acceptable guidelines of the College may be placed on academic probation. A student can keep financial aid during the first semester on probation, however, if they continue on academic probation for a second consecutive semester, or fail to complete 50% of the credit hours enrolled they will not retain financial aid. Students are eligible to receive financial aid for a maximum of ten semesters.

A student will receive written notification if financial aid is to be withdrawn. Students who have financial aid withdrawn may appeal to the Admissions and Academic Standing Committee by submitting a letter stating why satisfactory progress was not maintained and any other reasons why aid should not be withdrawn.

Grants

Pell Grant — A program providing direct grants from the federal government. The student receives an eligibility report (as a result of his or her Financial Aid Form application) which can be submitted to Union College for payment. It is expected that the maximum amount for the Pell Grant for 1992-93 will be $2,400.

Supplemental Educational Opportunity Grant (SEOG) — A program designed by the federal government to assist undergraduate students with exceptional financial need (with priority given to Pell Grant recipients). The grant is permitted to range up to $4,000 per year depending on need and availability of funds.

Kentucky Tuition Grants combined with the SSIG or the CAP Grant — provides grants to students who are residents of the Commonwealth of Kentucky and who demonstrate a need through the analysis of the Financial Aid Form application. The maximum award for 1992-93 will be $1,900.

Employment

College Work-Study Program — If a student still requires financial support to meet college costs after the federal and state grants are awarded, the student may be given the opportunity to earn an amount on an hourly basis in a campus department. This employment program is campus-based support from the federal government. Either undergraduate or graduate students can qualify if the Financial Aid Form results indicate a need.

Work-Grant — If a student cannot qualify for employment on the basis of financial need and the College needs the special skills of the student, the student can work for an amount of tuition waiver.

Coop Program with Tremco, Inc. — is available to a qualified sophomore, junior, or senior majoring in chemistry.

Loans

Perkins Loan (formerly National Direct Student Loan) — Federal loan funds are made available to students who have financial need and who maintain satisfactory progress towards graduation. Repayment at a 5% interest rate begins nine months after graduation or withdrawal from school.

Stafford Loan (formerly Guaranteed Student Loan) — This loan program exists in Kentucky and other states as a way to borrow from private commercial lenders to finance college education on the undergraduate and graduate levels. Repayment at 8% interest begins 6 months after graduation or withdrawal. Minimum payments are $50.00 a month. Eligibility depends upon at least half-time enrollment status, making satisfactory academic progress, and a reporting of family income by filing the FAF.

United Methodist Student Loan Fund — Students who are members of the United Methodist Church and maintain a "C" average may apply through Union College for a loan at 6% interest from the Board of Education of the United Methodist Church.

Charles M. and Mary D. Grant Loan Fund — The Charles M. and Mary D. Grant Foundation has provided an endowed loan fund for Appalachian students who demonstrate a real need and who are in good standing at the College.

Hensley Emergency Loan Fund — Mr. and Mrs. Burton F. Hensley of St. Cloud, Florida, have established a loan fund for single students at Union College who have emergency situations requiring small short-term loans.

The Rev. and Mrs. Erwin King Loan Fund — The Rev. and Mrs. Erwin King have established a loan fund to aid worthy ministerial students in the junior or senior year at Union College.

Guy H. Williams Loan Fund — Dr. Guy H. Williams of Cleveland, Ohio, has established a loan fund in memory of his wife, Anna Williams. The fund is available to worthy students who have spent two years at Union College and have a "C" average or better.

The Beverly P. and Mossie B. Wilson Loan Fund — This loan fund has been established by Dr. and Mrs. O. J. Wilson of Louisville, Kentucky, in memory of Dr. Wilson's mother and father. The loans shall be given to students majoring in English and repayment shall be in accordance with the guidelines of the College's loan fund. The income from this fund shall come from the Beverly P. and Mossie B. Wilson Trust Fund.

The Charles Henry and Glennora Rominger Krieger Student Loan Fund — This loan fund, established by the late Glennora R. Krieger of Ft. Thomas, Kentucky, provides loans to worthy and needy students from the Appalachian counties of Eastern Kentucky. The terms of the loan are the same as those of the United Methodist Student Loan Fund.

Other Loan Funds — Student loans are available from a number of funds not specifically designated for Union College students, but for which Union College students are eligible. Specific information may be obtained from the Office of Financial Aid.

Institutional Grants/Scholarships

United Methodist Church Grants-in-Aid — Union College will provide grants of $1,000 for full-time United Methodist students and will request the student's home church to consider matching the grant. If the student plans to go into the Methodist ministry or if the student is a dependent of a Methodist minister, then a $1,000 grant will be provided by the College. We encourage recipients to request matching funds from their local church.

The grants are for one year, renewable, and may be applied to any Union College charges (tuition, fees, room and board on campus). A student is eligible for only one of the above grants.

College Employee Scholarships — Full-time employees of Union College are eligible for tuition remission scholarships. Full-time employees hired after January 1, 1975, will not be eligible for tuition scholarships for spouse or children until they have been employed for six months unless they are under annual contract. The spouse and unmarried children of full-time employees hired after June 1, 1982 may receive a Union College Employee Dependent Scholarship equal to 50% of the tuition and charges, with no charges for auditing a course. Other fees are charged in full. Employee Dependent Scholarships will not be granted to children for graduate work. Application for a scholarship must be made through the Financial Aid Office prior to the registration date each term. The Kentucky Financial Aid Form (KFAF) must be filed to determine eligibility for federal state aid before an Employee Dependent Scholarship will be awarded. A tuition grant at other colleges participating in the Tuition Exchange Program is also available to employees' unmarried dependent children.

Alumni Grants — Dependent children of Union graduates will receive a grant equal to 10% of their Union College charges. Resident students' grant will be based on tuition, room and board charges, commuting students' grant will be based on tuition only. Students must meet all admission requirements and must attend full time.

Assistantships

Senior Assistantships are available annually. Students must: be enrolled full time, have completed ninety-six hours with a 3.0 minimum

grade point average overall and in their major. The duties of the Senior Assistants include occasional classroom lectures, research, remedial work with beginning students, assisting in laboratories, etc. The assistantships are not intended to cover clerical duties. The assistants are expected to spend up to eight hours per week on the work assigned with the awards ranging up to $1,000 per year. The awards are made by the Admissions and Academic Standing Committee. Candidates are to be recommended by the division chairperson by April 1.

Scholarships

Academic Scholarships for new, full-time freshmen are based upon academic achievement and the results of the ACT/SAT. A range of scholarships are available with the most prestigious award, the Union Scholar Award, being worth up to full tuition each year. These scholarships are renewable based upon a minimum grade point average for each scholarship category.

Valedictorians and Salutatorians are awarded $2,000 and $1,500 respectively and must achieve a score of 24 and 23 on the ACT or 1000 and 970 on the SAT. An official high school transcript with class rank and certified by the high school attended must be submitted. These scholarships are renewable each year by maintaining a 3.2 cumulative grade point average, or at two-thirds of the original amount for a 3.0 minimum average.

All institutional grants and scholarships are based on the availability of funds with priority being given to those individuals who apply before May 1 of each year.

A student receiving a Valedictorian or Salutatorian award will not be eligible for other academic scholarships.

Junior College Scholarships — for new, full-time students are available to graduates of junior colleges who have earned the A.S. degree with a grade point average (GPA) of at least 2.75 on a 4.0 scale. A range of scholarships from $1,000 to $2,000 are awarded based upon the cumulative GPA. These scholarships are renewable in the senior year if the student maintains the minimum grade point average for the award category.

Alumni Scholarships — The Alumni Association of Union College awards three scholarships of $1,000 annually. These scholarships are given on the basis of character, need, and evidence of future usefulness. They are open to all full-time undergraduate students with a minimum 2.8 GPA.

Dr. and Mrs. Edward S. Amis Endowed Scholarships — Dr. and Mrs. Edward S. Amis of Fayetteville, Arkansas, have endowed a scholarship fund at Union College. Dr. Amis received the Distinguished Alumni Award in 1985. The two $500 grants will be given annually to two full-time Christian-service students who excel in local church programs.

The Ashland First United Methodist Church Scholarship — The members of the First United Methodist Church of Ashland, Kentucky have endowed a scholarship for a "worthy student", preferably a member of this church. If no member-students are eligible, the scholarship may be awarded to any United Methodist student from Kentucky.

The George L. Bagby Scholarship/Loan Fund — The late Mr. George L. Bagby of Woodford County, Kentucky, established a student financial aid endowment totaling $405,000 including accumulated interest, and this supports both scholarships and loans for Kentucky students.

Bank of Harlan Scholarships — A number of scholarships are given annually to qualified students from Harlan County by the Bank of Harlan. The grants are determined according to financial need and academic excellence.

Barbourville Kiwanis Scholarship — The Kiwanis Club of Barbourville, Kentucky, has supplemented an educational fund originated by Mr. C. F. Heidrick and established a scholarship fund at Union College for promising students from Knox County, Kentucky. The scholarship is for $700.

Barbourville United Methodist Church Music Scholarships — Annually the First United Methodist Church of Barbourville, Kentucky, awards four scholarships of $200 (for a total of $800) to music students. Consideration is given for participation in the music program of the local church.

Bell County Scholarship — A friend of Union College from Bell County, Kentucky, has established a scholarship endowment with the income to be awarded annually to a Bell County student. This grant will be approximately $350 per semester.

Bryon B. Berry Appalachian Scholarship Endowment — Byron B. Berry, a 1935 alumnus,

has established a $10,000 Appalachian Scholarship Endowment for a student majoring in English with journalism as a career option. Preference is to be given to, but not limited to, a student from Lawrence County, Kentucky. Otherwise the grant is open to any student from Appalachia.

Henry C. Black Memorial Scholarship — This scholarship of $250 a semester is given as a memorial to Mr. Henry C. Black, a graduate of Union College, to a freshman graduating from high school in Kentucky or Tennessee.

John A. and Hannah P. Black Memorial Scholarships for Christian Workers — The late Dr. and Mrs. Henry C. Black, of Johnson City, Tennessee, endowed a scholarship that provides an annual grant of $500 a semester for a promising student who plans a life of service in the United Methodist Church.

Dr. and Mrs. James F. Blair Scholarships — Dr. and Mrs. James F. Blair of Barbourville, Kentucky, have endowed two $600 scholarships for students from Knox County, Kentucky. They are awarded annually to students in the sophomore, junior or senior year.

The Thelma Morehead Blair and Robert A. Blair Endowed Scholarship — Their daughter and son-in-law, Jeanette Blair Ladenburger (a Union College trustee) and John L. Ladenburger established a scholarship endowment in memory of Mr. and Mrs. Robert A. Blair. The earnings are to provide scholarships for Southeastern Kentucky students. Both Mr. and Mrs. Blair were graduates of Union College.

The R.L. Brown Family Endowment Scholarship — Mr. R.L. Brown, Jr., a Union College trustee from Corbin, Kentucky, has established an endowed scholarship for needy students. The late Mr. and Mrs. R.L. Brown, Sr. were graduates of Union College.

The Annette and Berry Burnaw Scholarship Endowment — Given by James Burnaw, an alumnus and Union College trustee, in honor of his parents. The yield is designated for a student from Nicholas County, Kentucky. Should there be no qualified student from this area during a given year, the scholarship will be given to some other Kentucky student.

The Eulalia Serrano Cabrero Memorial Scholarship — Miss Carmen Cabrero, '64, Jacksonville, Florida, has established a scholarship in memory of Eulalia Serrano Cabrero, a 1964 graduate of Union College. The $300 scholarship is available to a needy student of a minority background interested in a service profession.

Dr. and Mrs. Carlo B. Cawood Memorial Scholarship — The late Dr. and Mrs. Carlo B. Cawood of Harlan, Kentucky, endowed a scholarship to be awarded to a Harlan County student, with preference being given to a student from the Harlan United Methodist Church. The scholarship may be renewed. The grant is $800 per year.

Mamie D. Chambers Endowment Fund — The late Mamie D. Chambers of Maysville, Kentucky, established an endowment fund, the income from which is used to help support grants to needy and deserving students.

The Class of 1964 Scholarship — The alumni of the class of 1964 have established a student financial aid endowment totaling in excess of $5,000 including accumulated interest. The interest is to be used to promote geographical diversity in the full-time resident student body. A scholarship is to be awarded annually to a needy candidate from an under represented geographical area.

The Mary Clement Memorial Scholarship — Earl Clement, son of Mrs. Clement, has established a student financial aid endowment totaling $5,000 including accumulated interest, in her memory. The interest is to be used to fund a scholarship. The scholarship is to be awarded annually to a needy candidate from the state of New Jersey. Mrs. Clement, a resident of New Jersey for over eighty years, had a great love for education. Another son, Robert, is a graduate of Union College and served as Dean of Students from 1968-1975.

The Dr. Emerson G. and Edith Cobb Chemistry Endowment Fund — Dr. and Mrs. Emerson G. Cobb of Burson, California, have established an endowment for the support of a scholarship for the College's Chemistry Department. Dr. Cobb, a 1928 graduate of Union College, headed Union's chemistry program and later became head of the Department of Chemistry at the University of the Pacific, Stockton, California. Mrs. Cobb, the former Edith K. Cheap, is a 1929 Union graduate.

The Reverend Howard and Kathryn Coop Scholarship — Established in honor of the Coops by friends in churches where they have served, the Coop Scholarship is designated for Methodist students with preference being given to Kentucky Methodists.

The Davies Memorial Scholarship — The family and friends of Miss Ellen Davies and the late Dr. T. R. Davies have endowed a $1,600

scholarship to be awarded annually to a freshman or to an upperclassman with a "B" standing from Bell, Clay, Harlan, Knox, Laurel or Whitley County.

The Doan-Woody Scholarship — Oatis Doan of Harlan, Kentucky, has endowed a scholarship that provides an annual grant to a southeastern Kentucky student who has a 3.25 grade-point average. The grant, a memorial to Oatis Doan, Sr., is in honor of Mary H. Doan and Dr. Lester G. Woody, and may be renewed if the student maintains an overall grade-point average of 3.00 or better. Dr. Woody is Professor Emeritus of English at Union College.

Dr. Robert M. Drew Endowment Fund — The Commission of Missions of the Hyde Park Community United Methodist Church, of Cincinnati, Ohio, has established an endowment fund in honor of the Rev. Dr. Robert E. Drew. This fund will be used for scholarship grants to foreign students.

Dr. Franklin Duncombe Memorial Fund — Mrs. Helen Duncombe of Haverford, Pennsylvania, has established an endowment fund in memory of her late husband. Income will be used to finance grants-in-aid for students planning to enter the United Methodist ministry.

Alfred I. DuPont Scholarship Fund — The late Mrs. Alfred I. DuPont of Wilmington, Delaware, established scholarships for needy students having high academic potential. Preference is given to students from the Appalachian counties of Kentucky and Appalachian regions in adjoining states. This amounts to $5,000 annually.

Sam Coone Early Endowment Scholarship — The family of Sam Coone Early has endowed a scholarship to be awarded annually to a needy student. Mr. Early was a student at Union College in the late 1920's.

E. Nettie Edinger Memorial Scholarship — The late Mr. Joseph Edinger endowed this scholarship in memory of his sister. The scholarship is awarded annually to a deserving and worthy student enrolled at Union College.

Dr. and Mrs. J. Edward Faulkner Memorial Scholarship — This $500 scholarship is awarded to a student who plans a life of service in the healing arts, with preference being given to a predental student.

John D. Feather Scholarships — The late John D. Feather of Corbin, Kentucky, a 1940 graduate of Union College, has endowed scholarships to Union College for students from Corbin High School. The trust fund will provide funds for this scholarship program.

The R.B. Fenley Scholarship — Mr. R.B. Fenley of Louisville, Kentucky, has endowed a scholarship for needy Kentucky youth who show promise of future usefulness. Mr. Fenley is a former trustee of Union College.

The GAR Foundation Endowed Scholarships — The GAR Foundation has endowed scholarships for Appalachian students with priority being given to those from the Fifth Congressional District.

The President E. T. Franklin Endowed Scholarship — Mrs. Grace I. Franklin, widow of former Union College President E. T. Franklin, and the immediate family have established an endowed scholarship, the yield from which will be awarded to a student or students who maintain acceptable grades who are in financial need, and who plan to enter some form of Christian service.

W. Glover Giles Memorial Fund — The late Mr. W. Glover Giles of Louisville, Kentucky, a former trustee of Union College, established an endowment fund by gifts during his lifetime and by a bequest. Income is used to fund Honor Scholarships at Union College.

John O. and Harriet B. Gross Memorial Scholarship — Family and friends have endowed a scholarship. Dr. Gross was president of Union College during the years 1929-1938. The scholarship is awarded annually to a Kentucky senior student with preference being given to one from Northern Kentucky. The stipend and requirements are the same as for "United Methodist Scholarships."

Hugh and Joyce Haggard Memorial Scholarship — A scholarship fund memorializing Dr. Hugh E. and Joyce A. Haggard, and their children, Walter M. and Stephanie L., has been established by the parents and brother of Dr. Hugh E. Haggard. Income from the fund provides an annual scholarship for a full-time student at Union College. The $2,000 scholarship will be awarded to a worthy student on the basis of financial need.

Dewey and Rachel B. Hendrix Memorial Endowment — Dwight M. Hendrix, an alumnus of Union College and his sister, Mrs. Mary Katherine Hendrix Brashear of Hyden, Leslie County, Kentucky, have established an endowment to memorialize their parents. The endowment is designated for financial aid, with the income to assist needy and qualified students

enrolled full-time. Students who are residents of Leslie County, Kentucky, are given preference. Should no one qualify, then the grants are to be given to students from the Appalachian Region of Kentucky.

Walter S. and Ida Cole Hudson Scholarship Fund — The late Ida Cole Hudson of Barbourville, an alumna of Union College, endowed, through a bequest, a fund to provide scholarships in memory of her son, John Randall Hudson, a first lieutenant in the Air Force and a casualty of World War II. The fund will provide scholarships for students from Knox County.

Irene Hughes Scholarship — Miss Irene Hughes (AB'37; MA '63), Barbourville, Kentucky, provides an annual scholarship of $250 for a freshman girl, a graduate of Knox Central High School, who has been a member of the High School Honors English Class and who exemplifies Christian principles of conduct. The scholarship will be awarded by the Alumni Scholarship Committee.

Dr. W. A. E. Johnson Memorial Scholarship — Mrs. W. A. E. Johnson of Lawrenceburg, Kentucky, and friends have endowed a scholarship in memory of her late husband, a Union graduate and long-time friend of the College. The scholarship is designated for preministerial or Christian-service students.

The Ollie Cole Jones Scholarship Endowment — Mrs. Ollie Cole Jones, a native of Barbourville and a 1913 Union College alumna, has established a scholarship endowment in memory of Mrs. Ida Cole Hudson's son, John Randall Hudson, a first lieutenant in the Air Force and a casualty of World War II. The fund will provide scholarships for Knox County students.

Professor and Mrs. Millard L. Jordan Scholarship — Professor and Mrs. Millard L. Jordan of Lakewood, Ohio, have established a scholarship fund at Union College to aid worthy Appalachian students.

Junior Study Club Scholarship — The Junior Study Club of Barbourville, Kentucky, provides a $200 scholarship to aid a worthy student from Knox County, Kentucky. The scholarship is awarded to a girl who graduated from a high school in Knox County and who is a junior or senior at Union College.

Kentucky River Coal Corporation Scholarship — A scholarship endowment has been established by the Kentucky River Coal Corporation, Lexington, Kentucky, for needy students from Knott, Leslie, Letcher, and Perry Counties, Kentucky. Recipients must have a grade point average of at least 2.0 during their senior year in high school, or must have or maintain a grade point average of at least 2.5 at Union College.

The Kilgore Endowed Scholarship — This scholarship shall be awarded to a person entering the freshman class. Recipients will be selected from Southeastern Kentucky, Eastern Tennessee, and/or Southwestern Virginia. The scholarship designation will be made by the Union College Scholarship Committee. The endowment has been founded by Dr. Shirley Kilgore Weber, a native of Corbin, Kentucky, and professor at Rutgers University for many years. The yield from this endowed scholarship is designated for the scholarship.

Jeffrey W. Kronk Memorial Scholarship — Mr. and Mrs. Walter F. Kronk of Huntsburg, Ohio, have endowed a scholarship for a needy, qualified student from Geuga, Lake, or Astabula Counties in Ohio, or from the Appalachian counties of southeastern Kentucky. The scholarship is in memory of their son, Jeffrey, who was enrolled at Union College from 1963 through 1967. Should there be no qualified student from these areas in any given year, the endowment income will be used to support the Lincoln-Civil War Collection at Union College.

Verna Noe Landrum Memorial Scholarship — Mr. John W. Landrum of Harrodsburg, Kentucky, has established a $500 annual scholarship at Union College in memory of his mother, Mrs. Verna Noe Landrum. The award is to go to a student from Harlan County.

W.B. Landrum Memorial Scholarship — Mr. John W. Landrum of Harrodsburg, Kentucky, provides annually a scholarship of $500 in memory of his father for a promising United Methodist ministerial student. The student benefited by this scholarship must exhibit outstanding personal attitudes of religious sincerity, devotion, and earnestness in purpose.

Dorothy Lucas Memorial Fund — An endowment fund has been established in memory of Miss Dorothy Lucas, registrar of Union College for many years and beloved friend of students. The income from this fund is used to support various student-aid activities of the College.

The Magee Christian Education Foundation awards annually a scholarship for students entering Christian vocations or professions or to

those of economic need who are of Christian commitment.

Gayle Miles Scholarship — An endowed scholarship has been established by friends and former students of the late Gayle Miles for students from Barbourville High School. Miss Miles taught at both Barbourville Elementary and Union College.

John and Minnie B. McGaffee Trust Fund — Dr. and Mrs. O.J. Wilson of Louisville, Kentucky, have established the John and Minnie B. McGaffee Trust Fund for the purpose of providing financial assistance to worthy and needy preministerial students. The income may be used for grants or loans, with preference being given to students from the Appalachian Region of Kentucky.

Drs. Robert and Gertrude McGuire Endowed Scholarship — Drs. Robert and Gertrude McGuire, graduates of Union College, have established an endowed scholarship for a Union student having a financial need and maintaining a minimum of a B average. This scholarship amounts to $1,100 annually. Dr. Gertrude McGuire is a Union College trustee.

National United Methodist Scholarships — The Board of Education of the United Methodist Church makes available annually several United Methodist Scholarships of $500. The awards are made on the basis of character, need, and scholastic ability. Only students having at least a "B" average are eligible.

Mr. and Mrs. Hiram H. Owens Memorial Scholarship — Mrs. Sampson B. Knuckles (Jean) and Mrs. Buford T. Clark (Eleanor) have endowed a scholarship for a Knox County student in memory of their parents, Mr. and Mrs. Hiram H. Owens. Mr. Owens was a well-known lawyer and Mrs. Owens (Georgia Black) was the daughter of James D. Black, a governor of Kentucky and a president of Union College. Mrs. Knuckles is a former Union College trustee.

The Frances L. Patridge Scholarship — Friends have endowed a scholarship in honor of Dr. Frances Patridge, a friend and employee of the College longer than any other faculty member, with over 40 years of service. Her last title was Vice President for Student Affairs. Dr. Patridge is currently Associate Professor Emeritus of Health and Physical Education. The yield will be placed in the general scholarship fund and designated for upper division students with a 2.5 or better grade point average.

Emory Evan Peter Memorial Endowment — The late Mrs. Laura P. Dickey of Louisville, Kentucky, established an endowment fund in memory of her brother, Emory Evan Peter. The income from this fund will be used to help finance the college student-aid program.

Donald Rankin Memorial Scholarship — Friends of Donald Rankin, a Union College student killed in Vietnam, have provided a scholarship that pays $350 annually to a young man from Kentucky. Basis for awarding the scholarship is need and the earnest desire for a college education.

Milton M. Ratner Foundation Scholarship and/or Student Loan Endowment — The Milton M. Ratner Foundation has established a scholarship and/or student loan endowment with the yield designated for needy, deserving Appalachian students.

The Dr. H. Warren Robbins Scholarship — Mrs. Ruth Ann Payne Hicks, a 1972 Union graduate and vice president of the Dual Machine and Tool Corporation of Indianapolis, Indiana, has established this scholarship. The yield from this fund is designated for students from Appalachia who desire to enter the teacher-education program and graduate as teachers. Dr. Robbins served Union College for thirty-five years and was Dean of Graduate Academic Affairs for fifteen years. He is presently Professor Emeritus of Education.

The Marvin Robbins Endowed Memorial Scholarship — An endowed scholarship has been established in memory of Mr. Marvin Robbins, a graduate of Union College. The applicant must be an upperclassman who is a Bell County High School graduate. The selection will be based upon academic achievement and financial need.

E.O. Robinson Mountain Fund Scholarship — The E.O. Robinson Mountain Fund has established an annual scholarship program to assist needy students who reside in the Appalachian Region of eastern Kentucky. Students receiving these scholarships should give promise of being able to complete their academic work successfully.

Sanders Honor Scholarship — The late Colonel Harland Sanders of Shelbyville, Kentucky, provided a number of honor scholarships annually. Mrs. Claudia Sanders, his widow and former Union College trustee, continues to provide them. The Sanders Honor Scholarships are limited to students who do not use tobacco and alcoholic beverages.

The Dr. and Mrs. Phillip A. Sharp Endowed Scholarship — Dr. and Mrs. Phillip A. Sharp, both Union College graduates who now reside in Newton, Massachusetts, have established an endowed scholarship with the yield designated for needy, qualified students. Dr. Sharp is head of the Department of Biology at Massachusetts Institute of Technology in Cambridge, Massachusetts.

Sims Scholarship Fund — Reverend and Mrs. Harry C. Sims of West View, Kentucky, have established a scholarship fund at Union College to aid worthy students preparing for the United Methodist ministry.

The Catherine Faulkner Singer Memorial Scholarship — This $500 scholarship has been established by friends, alumni, and her daughter and son — Marcia and Donald — for the son or daughter of an alumnus of Union College. The honoree was Director of Alumni Affairs from 1961 to 1978.

Cawood Smith Harlan County Scholarship — Dr. Cawood Smith, Harlan County attorney, has established an endowment for scholarships to be awarded to the son or daughter of miners from Harlan County, Kentucky. The recipient shall be a resident of Harlan County and is to be selected upon the basis of need, scholarship, and promise of future usefulness in the coal region. This annual grant shall total $2,400.

Margaret Carter Stacy Scholarship Fund — Margaret Carter (Mrs. Cortis K.) Stacy of West Liberty, Kentucky, has endowed a scholarship fund for the support of students from Morgan County, Kentucky, or for Appalachian students. Mrs. Stacy is a strong United Methodist with interest in higher education for the youth of Appalachia.

Dr. and Mrs. Charles B. Stacy Memorial Scholarship Fund — A scholarship fund has been endowed in memory of Dr. and Mrs. Charles B. Stacy of Pineville, Kentucky, for students from southeastern Kentucky. A longtime friend of Union College, Dr. Stacy had an abiding interest in education of the Appalachian region.

Charles R. Steele Memorial Scholarship Fund — Martha Brittain Steele has established this scholarship as a memorial to her late husband, Charles R. Steele, a 1933 graduate of Union College. Preference is to be given to, but not limited to, a student from Mason County, Lewis County, or Harlan County. Otherwise the grant is open to any student from Appalachia.

The Steele-Reese Foundation Endowed Scholarships — The Steele-Reese Foundation of New York City has established a $100,000 endowment with the yield being designed for scholarships for qualified Appalachian students.

The Stevens Family Scholarship Fund — Dr. Erland P. Stevens, Chairman Emeritus of the Union College Board of Trustees of Ashland, Kentucky, and Mrs. Stevens have established a scholarship fund with 80 percent of the earnings being distributed annually as scholarship grants and with 20 percent of the yield being reinvested in the Stevens Family Scholarship Fund. The scholarships shall be a part of the College's general scholarship fund.

Lewis Ogden Stiles Endowment Fund — The late Mrs. Lewis Ogden Stiles of Waco, Texas, established this fund to memorialize her late husband, Lewis Ogden Stiles, and his first wife Pearl Long Stiles, both faithful United Methodists of Irvington, Kentucky. The income from this fund will be used to finance grants-in-aid under the college loan-grant program to United Methodist students planning to enter the ministry of the Kentucky or Louisville Annual Conference.

The Walter B. and Geraldine G. Sutton Memorial Scholarship — An annual scholarship will be given to a Knox County student attending Union College. The selection will be determined by the student's need, academic ability, and promise of future usefulness. The endowment is provided by two daughters: Carla Sutton Combs and Lynn Sutton Prichard.

Lytle and Dorothy Swope Scholarship — Dr. Samuel G. Swope of Louisville, Kentucky, a trustee of Union College, and F. William Swope of Elizabethtown, Kentucky, have established a scholarship endowment as a memorial to their parents. Funds for the endowment came from their parents' estate. Up to four scholarships are awarded annually with grants of $600 each. Preference is given to students born in Kentucky, Ohio, or Florida.

Hulbert Taft, Jr., Memorial Scholarship — Mrs. Thomas C. Haydock, Sr., of Cincinnati, Ohio, has provided a scholarship endowment as a memorial to her late husband, Hulbert Taft, Jr. The income from the endowment will be used annually to provide one or more honor scholarships to needy students having high academic potential.

The Dot Tatman Endowed Scholarships — Four $250 endowed scholarships have been established by the Reverend Dr. Harold W. Tatman, Jr., (a Union College trustee) in honor of his wife, Dot. The scholarships are to be given to freshmen and continue over the four-year period with preference to Kentucky female students.

The Teagle Foundation Appalachian Scholarships — The Teagle Foundation of New York City has established a number of scholarships for qualified Appalachian students. The foundation was established by Walter Clark Teagle, Rowena Lee Teagle, and Walter C. Teagle, Jr.

Edward Townsend Memorial Scholarship — Dr. Milton H. Townsend, Vice President of Union College and Assistant to the President for External Affairs, has endowed a scholarship with preference being given to a history and political science major. The grant is in memory of Dr. Townsend's late father.

TREMCO, Inc., Scholarship — Scholarships amounting to $4,000 annually are awarded by TREMCO, INC., a division of B.F. Goodrich Company, to science or chemistry students with preference being given to students from southeastern Kentucky.

Allan Tuggle Scholarships — Allan Tuggle, M.D., of Charlotte, North Carolina, an alumnus of Union College, has established a number of scholarships in mathematics and physics.

Several of the scholarships are awarded to entering freshmen on the basis of competitive examination. Other scholarships are awarded to current students with majors or minors in mathematics or physics on the basis of academic achievement. Some of the scholarships may be in the form of work grants.

Union National Bank Scholarship — The Union National Bank of Barbourville, Kentucky, has established a half-tuition scholarship at Union College to aid worthy students from Knox County, Kentucky. It is awarded to a student graduating from a high school in Knox County, for the freshman year at Union College.

Vaughn and Melton Company Scholarship - This scholarship is given by Vaughn and Melton, Consulting Engineers of Middlesboro, Kentucky. This is an annual award of $500 for a student from southeast Kentucky whose high school and college scholastic record reflects the potential for making a major contribution to the quality of life of the region.

Harry C. Viall Memorial Scholarship — Mrs. Harry C. Viall of Barbourville, Kentucky, has endowed a memorial scholarship for a needy, qualified student with preference going to an individual from Knox County. The annual $1,300 scholarship is given in memory of her late husband, Harry, who was a prominent local businessman.

Mr. and Mrs. O. H. Viall Memorial Scholarships — The family of Mr. and Mrs. O. H. Viall of Barbourville, Kentucky, has established a memorial scholarship fund at Union to aid worthy students. The number and size of the scholarships vary according to student financial need.

The Robert E. and Ann Viall Endowed Scholarships — Mr. and Mrs. Robert E. Viall of Barbourville, Kentucky, have established endowed scholarships that provide $6,000 annually for worthy students from either Knox or Bell County. Mr. Viall is a Trustee Emeritus of Union College.

The Nevil and Ethel White Memorial Endowed Music Scholarship — This scholarship, given by family and friends, has been designated as a music scholarship for students from Kentucky. If no Kentucky students are eligible, the scholarship may be awarded to any student or students majoring in music. Mrs. White was a former member of the music faculty at Union College. Dr. White, her late husband, was a graduate of Union College and served as secretary of the Union College Board of Trustees for many years.

William M. Wilson Memorial Scholarship — The late Mrs. Eva Oldfield Wilson of Barbourville, Kentucky, established a scholarship fund in memory of her late husband. The income from the fund will be used to provide an annual grant of $500 for a promising student preparing to teach in the elementary or secondary schools.

The Dr. C.R. Wimmer Endowed Chemistry Scholarship Fund — This scholarship, established by Mrs. C.R. Wimmer and friends, is to be awarded to a chemistry student at Union College or to one seeking admission as a chemistry student. Dr. Wimmer was professor of chemistry, head of the Chemistry Department, and director of the Department of Physical Sciences from 1932 to 1946. He was academic dean at the College from 1934 to 1946.

Dr. Henry M. Zimmerman Scholarship — The late Dr. Henry M. Zimmerman of Pompano Beach, Florida, established a scholarship

endowment for needy students of exemplary character who show promise of being able to contribute to the well-being of their country and their fellow man.

Endowments

The Russell M. Bennett Memorial Professor of Sociology Chair — Mrs. Helen Hunt Bennett gave $75,000 to Union in 1946 for the endowment of this professorship. An additional $2,000 was given for equipment for the Business Department.

The Cumberland Gap Genealogical Collection — This collection has been endowed by Dr. Robert M. Blake of Maysville, Kentucky, in memory of his late wife, Mrs. Noma Osborne Blake, who was a Barbourville native and a proponent of preserving the heritage of the mountain families of the tri-state area of Eastern Kentucky, Eastern Tennessee, and Southwestern Virginia. The collection is under the supervision of the Union College library staff and volunteers from the region.

Andrew and Emma Elizabeth Edinger Memorial Fund — This fund was established by the late Mr. Joseph Edinger in memory of his mother and father. The fund has been increased by other members of the family and the income designated for use in the maintenance of campus buildings.

James P. Faulkner Memorial Endowment — James P. Faulkner of Barbourville, Union College president from 1897 to 1905, gave property to the College, the sale of which produced $57,500. The income from this investment is used for salary support for a faculty member in philosophy.

The Harry L. Frey Scholarship Fund — Harry L. Frey, formerly of Lexington, Kentucky, and a member of the First United Methodist Church of that city, has established an endowment for scholarships for Union College students.

The Raymond W. Gibson, Sr., Chapel Endowment — Mr. Raymond W. "Deacon" Gibson, Senior, of Danville, Kentucky, established a $50,000 endowment at Union College in 1979 for the upkeep and maintenance of the Conway Boatman Chapel. His son, Raymond W. Gibson, Jr., served as Campus Minister at Union College from 1974 to 1979 and is currently a Union College trustee. The late Mr. Gibson, a prominent layman in the Kentucky Conference of the United Methodist Church, was a long-time friend of Union College.

Dr. Frank A. and Mrs. Eleanor Gilbert Biology Faculty Endowment — The late Dr. and Mrs. Frank A. Gilbert established a Biology Department Endowment to augment the salaries of the biology faculty. The annual supplement will be in addition to regular salaries. Dr. Gilbert was professor emeritus of biology at Union College.

The Charles M. and Mary D. Grant Faculty Endowment — The Charles M. and Mary D. Grant Foundation of New York City has provided an endowment for faculty development at Union College. The yield from this fund will support increased faculty salaries and professional advancement for the faculty members. The endowment was established in 1989.

The Margaret Voorhies Haggin Trust of New York City has contributed to the Union College Endowment Fund. The yield from this fund will support increased faculty salaries and professional advancement for the faculty members. The endowment was established in 1989. The trust contribution is in memory of the late James B. Haggin of Lexington, Kentucky.

Anna E. and John William Harris Memorial Fund — The late Dr. J. William Harris established a lectureship fund containing the sum of $30,000 in memory of his sister, Anna E. Harris, and his father, John William Harris.

The William Randolph Hearst Foundation of New York City has established an endowment for faculty development at Union College. The yield from this fund will be used to support increased faculty salaries and professional advancement for the faculty members. The endowment was established in 1987.

The Ray C. Hensley Business Simulation Center Endowment — This has been established by Cavalier Construction, Inc., of Springfield, Ohio, as a memorial to Ray C. Hensley, the father of Pamela K. Hensley, an alumna and former faculty member at Union College. This was established in 1990.

The Kenneth G. Herrick Faculty Endowment — Kenneth G. Herrick of Tecumseh, Michigan, has established a Faculty Development Endowment at Union College. The yield from this fund will support increased faculty salaries and professional advancement for the faculty. This endowment was established in 1986.

The Professor Daniel M. Humfleet Scholarship Endowment — Mrs. Bernice Humfleet Aguilera of Natchitoches, Louisiana, has established a $25,000 endowment at Union College in memory of her father, Professor Daniel M. Humfleet, a former faculty member of the College. The yield from this fund will go for the support of a scholarship for a Knox County student who plans to enter the teaching profession. The scholarship will begin following the lifetime of Mrs. Augilera.

Charles and Leona Jennings Memorial Funds — Dr. Charles M. Jennings of Marietta, Georgia, has established an endowment fund in memory of his parents, Charles and Leona Jennings, the income from which is to be used to provide an annual bonus to the head of the Department of Biology at Union College.

William Jones Endowment Fund — The late Mr. William Jones of Barbourville, Kentucky, established a fund, the income from which is designated for use by the music department to purchase recordings and musical scores.

Jeffrey Kronk Memorial Endowment — This endowment, established by the Senior Class of 1967, in memory of Jeffrey Kronk, a member of that class, will assist in purchasing books for Union College's Lincoln-Civil War Collection.

Francis Landrum Memorial Professor of Religion and Philosophy — The late Mrs. Obed . Wilson established the Francis Landrum memorial professorship through a bequest of $50,000 in 1927.

Melanie Jean Martin Trust Fund — Dr. and Mrs. O. J. Wilson, of Bowling Green, Kentucky, have established a memorial fund in memory of their granddaughter. The income from this fund is used to purchase library books to support the work of the English department.

Pearl Sinnett Meyer Memorial Fund — The Rev. Dr. Jesse I. Meyer has established an endowment fund in memory of his wife, Mrs. Pearl Sinnett Meyer. The income of this fund is designed for the purchase of books for the Union College library.

Allan Tuggle Endowment Fund — Allan Tuggle, M.D., of Charlotte, North Carolina, an alumnus of Union College, has established a fund, which may be augmented from time to time, the income from which is designated for scholarships, awards, and instructional support in mathematics and physics.

The Bryan W. Whitfield-Kentucky Jellico Coal Company Memorial Fund — This fund was established by Bryan W. Whitfield, Jr., of Harlan, Kentucky, in memory of his father, Bryan W. Whitfield, founder of the Kentucky Jellico Coal Company. The income shall be used to establish a Student Financial Aid Loan Fund. The recipients shall be limited to students from Bell, Harlan, Knox, Letcher, and Whitley Counties in Kentucky and from Lee and Wise Counties in Virginia. The students are to be partially or wholly self-supporting.

Willson-Gross Lectures — The late Dr. and Mrs. James Wilson of Floydada, Texas, established a lectureship endowment in memory of Dr. and Mrs. John Owen Gross. The purpose of the lectures is to bring annually to the campus distinguished speakers to discuss vital issues confronting the Christian student.

Colutha J. Taylor Wright Memorial Fund — The late Mr. J. S. Wright of Whitley City, Kentucky, established an endowment fund in memory of his wife, Mrs. Colutha J. Taylor Wright. The initial sum was $1,000.

Awards

Note: These awards may be presented at the annual Honors Day Convocation. Some are academic in nature; to be eligible for such awards, students' academic records should not include any grades of "incomplete." Postgraduate students are ineligible to receive these awards.

Alpha Psi Omega Award — given by the Zeta Chi chapter of the national dramatics honorary fraternity to a senior who has made outstanding contributions to Union College theatre over a period of years.

Bjornstad Freshman Composition Award — given by Dr. William Bjornstad, a former faculty member of Union College, and Mrs. Bjornstad, to the student achieving the highest writing excellence in freshman composition courses as determined by the English Department.

Governor James D. Black Senior Award — given by the late Mr. Pitzer D. Black of Barbourville to the senior with the highest scholastic average for the year.

Blackwell Political Science Memorial Award — given by the late Dr. Robert Lee Blackwell to the senior majoring in history and/or political science showing the highest academic excellence in the field of political science.

Erwin S. Bradley History Award — given to an upperclass student with a major in history who has the highest scholastic average in overall grades in history earned at Union College.

Melva and Kathy Brick Award — given by Mr. Theodore F. Brick, family and friends to the student showing the highest proficiency in competitive swimming.

Calculus Award — given by a friend of the College to the student with the highest cumulative average in all three calculus courses offered at Union.

Campus Activities Board Award — given by the Campus Activities Board to the senior member who has contributed the most to the Board and to student activities at Union College during the academic year.

Campus Activities Discretionary Fund Committee Student Organization Achievement Award — given by the Campus Activities Discretionary Fund Committee to the campus organization which, in the committee's opinion, has contributed the most toward campus activities during the academic year.

Campus Ministry Award — given to the senior who, by his or her actions, exemplifies selflessness and concern for the needs and well-being of others as determined by the office of Campus Ministry.

Chemical Rubber Company Freshman Chemistry Award — given by the Chemical Rubber Company Press of Boca Raton, Florida, to the outstanding freshman chemistry major.

Dr. Theodore R. Davies Senior Biology Award — given in memory of the late Dr. Theodore R. Davies to the senior student showing the highest academic excellence in the field of biology.

Eastern Kentucky Essay Award — given by the late Dr. Kenneth H. Tuggle, a former trustee of Union College, to the student writing the best essay on eastern Kentucky history.

Engineering Award — given by a friend of the College to the student with the highest cumulative average in pre-engineering courses taught at Union College.

Evans, Phillips & Company Scholarship Award — given by Evans, Phillips & Company, C.P.A.'s of Barbourville — an annual $500 scholarship to be awarded to the most promising freshman or sophomore accounting major. The scholarship is to be used in the fall semester. The recipient also receives a plaque and a cash award.

Gamma Beta Phi Award — given by Gamma Beta Phi to the full time student with the highest cumulative average in hours earned at Union College.

Dr. L.A. Geiss Computer Award — given by the late Dr. and Mrs. L.A. Geiss, to the student exemplifying excellence in computer information systems. Dr. Geiss was a Union College trustee.

Dr. L.A. Geiss Junior Award — given by the late Dr. and Mrs. L.A. Geiss, to the junior majoring in accounting with the highest cumulative standing in that field. Dr. Geiss was a Union College trustee.

Dr. L.A. Geiss Senior Award — given by the late Dr. and Mrs. L.A. Geiss, to the graduating senior majoring in business with the highest cumulative standing in the field. Dr. Geiss was a Union College trustee.

Dr. Albert D. Graham, Jr., Social Studies Award — given by Dr. Albert D. Graham, Jr., to the senior education major who shows the greatest teaching potential in Social Studies.

Joe C. Hacker Award — given by a friend of Union College in honor of Mr. Joe C. Hacker who was a member of the Union College faculty for over thirty years. This award is given to the student showing interest and excellence in a first computer programming course.

Health and Physical Education Faculty Award — given by the Union College Health and Physical Education Department to the senior Health or Physical Education major with the highest cumulative academic standing.

Iota Sigma Nu Freshman Award — given by the Iota Sigma Nu Honor Society to the freshman with the highest scholastic average for the year.

Iota Sigma Nu Sophomore Award — given by the Iota Sigma Nu Honor Society to the sophomore with the highest scholastic average for the year.

H.B. Jones Business Enterprise Award — given in memory of Mr. H.B. Jones to the student who has shown initiative and enterprise in the field of business.

Steve Jones Memorial Award — given in memory of Steve Jones, a Union College graduate, to the senior varsity letterperson with the highest cumulative academic average.

The Journalism Award — given by the English and Foreign Languages Department of Union College to the English major with journalism emphasis who has done the most to

promote high journalism standards at Union College and who shows the greatest promise for success in a professional journalistic career.

The Literature Award — given by the Barbourville Tuesday Club to the student majoring in English who shows the greatest excellence in the field of literature.

Marigold Microcomputer Lab Award — given by the Union College Business Department in honor of Mrs. Connie Marigold, whose assistance and enthusiasm have greatly contributed to the development of the microcomputer laboratory. This award is given to the microcomputer laboratory assistant who has best demonstrated excellence through service to students and faculty in the microcomputer laboratory.

Mathematics Award — given by a friend of the College to the graduating math major who has the highest cumulative average in math courses at Union College.

Military Science Awards — these awards are given by various organizations to military science students for outstanding leadership qualities and achievements.

Dr. Mahlon A. Miller President Emeritus Award — given by Dr. and Mrs. Mahlon A. Miller to the senior with the highest cumulative average earned at Union College. Dr. Miller served as President of Union College from 1959-1982 and is currently President Emeritus.

Rena Milliken Award — given in honor of Miss Rena Milliken, Professor Emeritus of Business at Union College, by the Union College Business Department to the graduating senior who shows the greatest potential for professional achievement.

Dr. Paul Muncy Memorial Award — given in memory of Dr. Paul Muncy to the senior premedical student with the highest cumulative academic standing.

Music Faculty Award — given by the Union College Department of Music and Fine Arts to a music major for his or her interest, initiative, cooperation, musical ability, academics and service to the department.

National Education Association — Student Program Award — given by the Union College Chapter of the National Education Association — Student Program to the graduating senior showing the greatest excellence in the field of education.

H.H. Owens History Award — given by the late Mrs. H.H. Owens to the student showing the greatest excellence in the field of history.

Laws and Esten Parks Award — given by Dr. S. Laws Parks, former Vice President for Business Affairs at Union College, and Mrs. Parks, to the senior religion major with the highest cumulative academic standing.

Patridge Theta Pi Delta Awards — given by the "Union Express" and **Stespean** staffs in honor of Dr. Frances Patridge, Associate Professor Emeritus of Health and Physical Education and former Vice President for Student Affairs at Union College, to seniors who represent the qualities of outstanding service exhibited by Dr. Patridge.

Phoenix Award — given by the Drama faculty to the freshman who stands as the hope of the future by contributing the most to Union College theatre in the academic year.

Physics Award — given by a friend of the College to the student showing the greatest excellence in the general physics course taught at Union College.

William Faulkner Rushton Award for Appalachian Literature — given in memory of William Faulkner Rushton. This award has been established by parents and friends in honor of Mrs. Lura Faulkner Rose, the late Mr. Rushton's grandmother. Awards will be given to Union College students and students from a Knox County high school. Winning papers will be selected by a committee of judges from entries submitted by classroom teachers.

Sampson Political Science Award — given by the late Governor Flem D. Sampson to the junior showing the highest academic excellence in the field of political science.

William Hugh Smith Memorial Award — given in memory of the Reverend William Hugh Smith to a pre-ministerial or Christian-service student (with preference being given to a Christian-service student) who shows promise in the ministry.

Outstanding Sociology Major Award — given by the Social Science Division faculty to the senior sociology major with the highest cumulative grade point average.

Hattie Stanberry Ecology Award — given in memory of Hattie Stanberry, an alumna and former faculty member, to the student or organization that has made a contribution to environmental improvement in the academic year. If there is no qualified candidate, the $50

stipend shall go to the College's Soccer Club, or, if there is none, it shall go to the Annual Fund.

Student Government Association Award — given to the newly elected Student Government Association President.

Student Government Association and Campus Activities Board Certificate of Service Award — given by the Union College Student Government Association and Campus Activities Board to a member of the Union College staff for his or her contributions to the Student Government Association and Campus Activities Board during the past year.

Student Government Association Distinguished Professor Award — given by the Union College Student Government Association to a member of the Union College faculty.

Katherine V. Sutphen Memorial Award — given in memory of Katherine V. Sutphen, a former faculty member of Union College, to the student who has used his or her talents best during the year in serving the Union College Music Department.

Judge W.W. Tinsley Family Memorial Award — given by the late Mrs. Mayo Tinsley Rathfon to the junior or senior preparing for a legal career showing the greatest promise of future success.

Tremco, Inc. Award — given by Tremco, Inc. of Barbourville to the junior majoring in chemistry showing the highest academic excellence as determined by the science faculty.

Beverly P. and Mossie B. Wilson Memorial Award — given by Dr. and Mrs. O.J. Wilson in memory of Dr. Wilson's parents to the English major with the highest cumulative grade point average who has completed three full years of residence at Union College.

Dr. Cecil H. Wilson Junior Award — given by Dr. Cecil H. Wilson, an alumnus and trustee of Union College, to the junior with the highest scholastic average for the year.

John Henry Wilson Sophomore Award — given by Mrs. Guy D. Atkisson, Jr., of St. Petersburg, Florida, the granddaughter of the late John Henry Wilson of Barbourville, to the sophomore from the Fifth Congressional District of Kentucky who has the highest scholastic average for the year.

Wimmer Chemistry Award — given annually to the student showing the greatest promise in the field of chemistry. Dr. C. R. Wimmer was head of the Chemistry Department at Union College from 1932 to 1946. He also served as academic dean during this time.

THE ACADEMIC PROGRAM

Academic Calendar

Union College operates on a semester system. The Fall semester begins in late August and ends before Christmas. The Spring semester runs from January to early May. The College has a special three-week May interim session as well as two five-week summer terms.

Course Load

The normal undergraduate student load is sixteen semester hours per semester. Students who have an average academic standing may register for a maximum of eighteen semester hours credit per semester. Students who attain a "B" average are permitted to earn up to twenty-one semester hours per semester. Exceptions must be approved by the Vice President for Academic Affairs.

The maximum load in the May interim is three semester hours. The maximum load in each summer term is six semester hours. Students whose cumulative grade point average is "B" or better may request permission from the Vice President for Academic Affairs to take seven hours during each regular summer term.

Class Attendance

1. Class attendance is required. Each student is responsible for all work from the first day of class and is expected to attend all meetings of the class for which he is registered. This is regarded as a matter of individual student responsibility.
2. All faculty members are expected to keep accurate records of class attendance.
3. Class absences due to circumstances beyond the control of the student will be excused by the teacher involved if the request is made within one week of return to campus. Class work or tests in these classes must be made up.
4. Class work and tests missed due to illness of a student can be made up only when the student presents the teacher with a valid excuse when he returns to class.
5. Class work and tests missed by the student while he is participating in an activity sponsored by Union College may be made up only when the faculty sponsor of such an activity signs the official absence list of students.

Withdrawal From Courses

A student is not automatically withdrawn when he stops attending a class. Official withdrawals are made only on forms provided by the Registrar's Office. It is the student's responsibility to complete this form, obtain the signatures needed, and return it to the Registrar's Office. Failure on the part of a student to follow this withdrawal procedure will result in a grade of "F" for the term.

Course Numbering System

Courses numbered 100 or 200 are intended primarily for lower division students and 300- and 400-level courses are generally reserved for upperclassmen. Freshmen or Sophomores desiring to enter 300- or 400-level courses should confer with the division chairperson involved for permission to enroll. 500-level courses are restricted to graduate students.

Courses with hyphenated numbers (101-102) are used when the first semester is prerequisite to the second.

Reserved Course Numbers

Some special numbers are reserved for specific types of courses or studies. They may be used in any department although they are not shown in the following pages under the specific listings.

001-099	Non-credit special interest courses.
181, 281, 381, 481,581	"Special Topics" courses — classes developed on a one-time or experimental basis, or a special innovative class.
282,482, 582	Special workshops, credit or non-credit.
183, 283, 483, 583	Television courses through Kentucky Education Television Network.
184, 284, 384, 484	May interim courses not listed under a regular catalog number.
285, 485	Experiential Education — Study abroad, internships, cooperative work, experience and vocational work experience.
287, 487	Field Practicum in specialized areas.

495, 595 Independent Study — individual research on approved topics not found in traditional courses. May be repeated on different topics.

Special Notations

Each course description indicates the semester the course will be offered — (F) for Fall Semester, (S) for Spring Semester, and (Sum) for Summer Session.

Many regular year courses are offered in summer sessions but are not guaranteed offerings.

Courses indicated as being offered in "Even Years Only" are offered on an alternate year basis in academic years *beginning* with even numbers, such as 1978-79. "Odd Years Only" courses are offered on an alternate year basis in academic years *beginning* with odd numbers, such as 1979-80.

Students should consult regularly with their advisors to ensure proper progress toward their degree. In the junior year, a curriculum plan will be done by the Registrar. This will indicate the courses the student has already completed toward the degree major on file in the Registrar's Office. **Each student is responsible for completing all requirements.**

The Grading System and Quality Points

Marks are reported in letters as follows:

A — Represents distinctly superior work, valued at four quality points for each semester hour.

B — Represents above average work, valued at three quality points for each semester hour.

C — Represents average work, valued at two quality points for each semester hour.

Cr — Indicates that a course has been passed satisfactorily.

D — Represents inferior but passing work, valued at one quality point.

F — Indicates failure with 0 credits and 0 quality points for each semester hour or failure to officially withdraw from a course.

NP — Indicates No Grade Posted - For Developmental studies courses only.

The "NP" is given for the student who is still in the process of mastering the skills in the developmental course(s) the "in progress" grade is given. This grade does not negatively affect the GPA as an "F" does. The student must register for the course the next enrolled semester or the "NP" becomes an "F". The "NP" is used only in developmental courses when students are showing satisfactory progress in mastering the content of the course.

W — Indicates that a student withdrew during the first 12 weeks of the semester.

I — Indicates that in the opinion of the instructor the student has not been able to complete the required work of the course on time due to unavoidable circumstances.

An "I" received at the end of any semester must be removed before the end of the next semester if the student is enrolled for that term. If the student is not enrolled, the "I" must be removed before the end of the 12 month period following the date on which the "I" was received. Any exceptions to the time limit must be made by agreement of the instructor, division chairperson, and Registrar. If an "I" is not removed within that time limit, it remains on the permanent record and cannot be made up.

Quality Point Standing

The quality point standing of a student is determined by dividing the total quality points which he has earned by the total number of semester hours for which he has registered minus the number of hours of Credit and Incomplete on his record.

Classification of Students

Freshman	less than 32 semester hours
Sophomore	32 semester hours
Junior	64 semester hours
Senior	96 semester hours

Credit/Fail Option

The purpose of the Credit/Fail option is to provide the opportunity for students to explore elective courses outside their area, major, or minor without engaging in competition with students specializing in those subjects and without jeopardizing their grade point average.

This option excludes all courses in the Liberal Education Core and any area, major, or

minor. It is available only to those students with at least sophomore classification and those maintaining a 2.0 grade point average. This option is also available to transfer students of sophomore classification and who have completed at least twelve hours of satisfactory work at Union College.

This option allows that no more than fifteen semester hours may be applied toward graduation with a Bachelor's degree, no more than two courses per academic year (July through June), and only two courses in any single discipline. No more than nine hours may be applied toward graduation with an Associate degree.

A student must apply in the Registrar's Office for the Credit/Fail option by the last date identified in the current academic calendar to withdraw from a course with a grade of "W". It is a matter between the Office of the Registrar and the student. The information is not available to instructors except when the student communicates the same to the instructor. A grade of "D" or above will be recorded as CR and an "F" will be recorded as such.

Examinations and Reports of Marks

Examinations are held at the close of each semester. Tests are held at such times during each semester as the instructors may determine. Mid-semester and semester grades are reported by the instructors to the Registrar. Mid-semester grades are sent to the students' advisors as soon as possible, and students may obtain these grades from their advisors. Copies of final semester grades are mailed to the address designated by the student. Only final grades become a part of the student's permanent record.

Grade Appeal

Students are entitled to redress any grievances relative to grades. Please refer to the student handbook or contact the Office of Academic Affairs.

Honor Students

Union College recognizes excellent scholarship in three ways: The Dean's List, the Presidential Laureates, and graduation with honors.

The Dean's List is comprised of those students who have completed at least 12 hours of graded work with a 3.25 grade point average and no grades of "I" for the semester. This list is published after the fall and spring semesters.

Presidential Laureates are those students who meet all requirements for the Dean's List and achieve at least a 3.75 grade point average for two successive semesters with at least 12 hours of graded work and no grades of "I" in each semester. The two summer sessions may be counted as one of these semesters if the minimum hours have been earned. The list of students designated as Presidential Laureates is published after the fall and spring semester.

Appropriate certificates are given in recognition of both of these achievements, and graduation honors are noted on the diplomas of those receiving degrees with distinction (described on page 37 of this catalog).

Probation

Students falling below the following grade point average and corresponding minimum semester hours will be placed on Academic Probation:

Freshmen	1.80
Sophomores (32 hours)	1.90
Juniors (64 hours)	2.00
Seniors (96 hours)	2.00

Probationary students are closely monitored by the Academic Standing Committee of the College. Students who are on academic probation may be restricted as to course taken, may be required to repeat courses in which low grades have been earned, lose Union College financial aid, or be suspended from the College.

Academic Amnesty

Students having received a grade point average (GPA) of less than 2.0 in a semester may apply once only to the Registrar for academic amnesty after having completed two consecutive full time semesters or twenty-four hours of part time work with a GPA of 2.0. Twelve semester hours earned during the summer terms may be counted as one semester. Course titles and grades remain as previously recorded on the academic record. Credit will be given for courses with grades of "C" or higher. None

f the grades in the semester for which aca-
emic amnesty is granted will be used in cal-
ulating the GPA. Transfer students bringing
ess than a 2.0 GPA or having received any
orm of academic amnesty at another institu-
ion do not quality for any amnesty option at
Jnion. Students who receive amnesty will not
e eligible for academic honors based on cu-
ulative GPA.

Academic Honesty

Union College has a right to expect a high tandard of academic integrity. Academic dis-onesty such as plagiarism, collaboration, or heating will not be tolerated. Examples of ac-demic dishonesty may include:

1. Plagiarism - taking ideas, writings, etc., from another and presenting them as one's own.
2. Writing papers for other students.
3. Cheating (using illegal notes, copying, etc.) on examinations.
4. Unauthorized collaboration - unauthorized assistance with written or oral material.

Incidents of academic dishonesty will be lealt with by the individual professor, who nay consult with the Department Head, Divi-ion Chair, or Vice President for Academic Af-airs. Incidents of academic dishonesty will be eported in writing to the Office of Academic Affairs. Students have a right of appeal and are eferred to the publication, **Union and You**, un-ler the section "Academic Due Process".

The Instructor may impose one of the follow-ng penalties:

1. Administer another examination or outside assignment.
2. Assign a grade of "F" for the examination or outside assignment.
3. Assign a grade of "F" for the course, expelling the student from the course.

In severe or repeated incidences of academic lishonesty, the Vice President for Academic Affairs may suspend or expel a student from he college, after appropriate consultation.

Portfolio Development Program

The Portfolio Development Program is a pro-gram designed to accommodate non-tradi-ional students who have not been to college before or who dropped out of college in previous years and would like to return. It is structured to make it possible for these students to earn academic credit for prior learning that has come from life/work experiences. Students must register for the initial course, Portfolio Development, in order to learn how to develop a portfolio document. For further information, contact the Director of Portfolio Development or the Office of Admissions.

College-Level Examination Program (CLEP)

Union College is a regional testing center for the College-Level Examination Program (CLEP). The CLEP tests provide college credit for material students have mastered through self-study or non-accredited classes. As an Open Testing Center, Union College administers CLEP exams the second week of August, October, February and April. Students must register and pay at least three weeks in advance allowing the Testing Center time to order and receive the tests. The fee for the test is nonrefundable in the event the student decides not to take the exam.

By passing the CLEP examinations, degree-seeking students enrolled at Union College can earn up to 30 semester hours of credit toward a four-year program; 15 hours may be earned toward a two-year program. High school special students, and other special students, are not eligible. Credit may not be earned, through CLEP, for courses required for teacher certification by the Kentucky Department of Education. CLEP can not be utilized to make up a failed course.

Exams in the general battery must be taken before the student achieves sophomore status. Further information is available in the Office of Special Programs.

Credit By Examination

1. The student will apply for credit by examination at the office of the Registrar. An initial screening interview will be conducted and the division chairperson and appropriate faculty member will be consulted to determine if an evaluation seems feasible.
2. If an evaluation is feasible, the student will take a completed application form to the faculty member and arrange for an evaluation date. The faculty member will

prepare an evaluation procedure, carry out the evaluation, and report the results to the Registrar.

3. Reported results will include a recommendation as to whether or not credit should be awarded and a description of the evaluation procedure and student performance. This material will be maintained on file in the Instructor's Office.
4. The recommendation and evaluation description will be forwarded to the division chairperson or a designated representative for review. If the division representative does not concur, the faculty member, designated representative (if there is one), and the division chairperson will meet with the Vice President for Academic Affairs to seek a resolution.
5. Successful completion of a challenge examination will be reported to the Registrar by the Instructor and will be recorded as "Credit" on the transcript. An unsuccessful challenge will not be recorded.
6. Students enrolled in a course may request a challenge examination only within the period when a new course may be added.
7. Challenge examinations may not be used for developmental courses, to repeat a course, or remove an "F" from the transcript.

Independent Study and Experiential Education

Union offers to qualified students the opportunity to work independently to earn credit for graduation. This option is reserved primarily for Junior and Senior students who have indicated the academic maturity to be able to accomplish the requirements of the course.

Registration for either of these options is during the designated time period for registration of other courses. Deadlines for adding courses should be adhered to for Independent Study and Experiential Education. Forms can be obtained from the Registrar's Office.

Correspondence Courses

Any student planning to graduate from Union College must receive permission from the Registrar to register for correspondence courses.

Students applying for permission to earn correspondence credit must follow the same guidelines as stated for full-time students under "Course Load" on page 30. The stated number of hours will apply only for the semester or term in which the student registered.

Not more than six semester hours of correspondence work done in one academic year will be accepted by the College. Not more than six credit hours in a major may be completed by correspondence. Not more than sixteen semester hours of correspondence credit will be accepted toward a degree. Not more than six semester hours of correspondence may be accepted during the senior year.

Failure or quality point deficiencies in any course done in residence cannot be removed by transfer credit, correspondence or Independent Study. Graduating seniors must complete any correspondence work needed for graduation at least four weeks before the date of Commencement.

Transfer Credit for Union College Students

A student at Union College who wishes to take course work at another accredited college or university must obtain written permission from the Registrar before enrolling in the course. Union College students can not register for more than a total of seventeen semester hours per term, including all off campus courses, without the consent of the Vice President for Academic Affairs. Failure or quality point deficiencies in any course work done at Union College can not be removed by transfer credit, correspondence or Independent Study.

Students who have earned a minimum of sixty-two semester hours credit at Union College may transfer a maximum of six semester hours to Union during their final twenty-four hours of baccalaureate degree work. Students who have earned fewer than sixty semester hours credit at Union College may transfer a maximum of six semester hours to Union during their final thirty-six hours of baccalaureate work.

Associate degree students who have earned a minimum of thirty-two semester hours credit at Union College may transfer a maximum of six semester hours to Union during their final eighteen semester hours.

Assessment Day Activities

Union College has developed a plan of action related to on-going assessment of our academic programs as well as other aspects of our college community. This is a continuous program throughout the school year but much of the data collection will center around an Assessment Day, identified in the school calendar, where students are expected to participate. Since an on-going evaluation of college programs is important to the quality of our offerings and because the Southern Association of Colleges and Schools requires some type of assessment program, this Assessment Day participation has been made a part of graduation requirements. Questions related to this program should be directed to the Director of Assessment or the Vice President for Academic Affairs.

Convocations

There are five convocations held at Union each year, Fall Convocation, Spring Convocation, Honors Convocation, and one other each semester. Attendance is required of all full time students for all convocations except Honors Convocation. If a student misses any of the required convocations they must state in writing the reason for missing to the Office of Academic Affairs. Alternate forms of make-up are available to the students and these are indicated in correspondence each semester. Failure to comply will result in a letter of non-compliance being placed in the students folder.

Graduation Requirements

Requirements for Graduation — Bachelor Degrees — Arts, Music, and Science.

The candidates must satisfy the following requirements:

1. Minimum of 128 semester hours. Thirty of the last thirty-six must be earned in residence at Union College. Students who have earned as many as sixty-one semester hours at Union College may graduate with eighteen of the last twenty-four hours earned in residence. At least forty semester hours must be in courses numbered 300 or above.

2. Quality point standing of 2.00 overall and at Union, and in all courses taken in the major or minor fields unless a specific department requires a higher GPA.

3. Completion of the Liberal Education Core.

4. The equivalent of 12 semester hours of a single foreign language not native to the student is required for the Bachelor of Arts Degree. Equivalency shall be determined by the successful completion of the fourth college course of the language. Students with prior training in that language at the high-school level may be eligible for advanced placement in the sequence of courses and meet the requirement with fewer than twelve credit hours.

   Religion majors may substitute a year of Hebrew and a year of Greek for the language requirement for the Bachelor of Arts degree.

5. For the Bachelor of Science degree the student must meet all graduation requirements, including a major or area. A foreign language may or may not be required as determined by the individual discipline.

6. Completion of either:

   a. A major as determined by the faculty of the individual discipline.

      Majors are offered in: Accounting, Biology, Business Administration, Business Education, Chemistry, Christian Education, Church Music, Computer Information Systems, Criminal Justice, Drama, Early Elementary Education, English, English with Journalism Emphasis, History, History and Political Science, Mathematics, Middle Grades Education, Music, Music and Business, Music Education, Office Administration, Philosophy/Religion, Physical Education, Physics, Psychology, Religion, Science Education, Secondary Education and Sociology.

      Minors are offered in: Accounting, Appalachian Studies, Biology, Business Administration, Chemistry, Computer Information Systems, Computer Science, Criminal Justice, Drama, Economics, English, Environmental Studies, Health Education, History, Marketing, Mathematics, Military Science, Music, Office Administration, Philosophy, Physics, Political Science, Psychology, Religion and Sociology.

b. An area, the structure of which is determined by the faculty of the Division in which the area requirements are met.

Areas are offered in: English, History and Political Science, Mathematics-Physical Science, Science and Social Studies.

7. At least forty semester hours offered for graduation must be earned in junior and senior courses (300 or above); at least six semester hours 300 and above, earned at Union, must be included in any minor or twenty-four hour major; at least twelve semester hours 300 and above (evenly distributed in the two fields if this is a combined major), earned at Union, must be included in a thirty-hour major; at least eighteen semester hours 300 and above earned at Union must be included in an area or fifty-four hour major.

8. Participation in annual Assessment Day testing activities is required each year of all senior students. Those with special problems may contact the Vice President for Academic Affairs for waiver.

9. Advice in arranging schedules and choosing courses is always given gladly; however, each student is responsible for completing all requirements.

Associate Degree — see specific program requirements

Combined Degrees

The bachelor degrees may be granted to students who have completed three years of work at Union College and one year of work in an accredited professional school with the following provisions:

1. The work in the professional school must continue the curriculum in which the student has been enrolled at Union College (pre-law, pre-dentistry, pre-medicine, etc.)
2. The student must have completed satisfactorily the minimum requirements for three years of pre-professional work at Union College (ninety-six semester hours with a quality-point standing of at least 2.00) and also the general college requirements for graduation, including the foreign language requirement if a B.A. is desired.
3. The student must have completed satisfactorily the minimum requirements for one year of study at the accredited professional school in which he is enrolled. The number of credits at the end of the four years of study must total at least 128 semester hours.

ACADEMIC RECORDS

Family Educational Rights and Privacy Act

The following policy is in accord with Kentucky Revised Statute 164.283, the Family Educational Rights and Privacy Act of 1974 (Public Law 93-380) as amended (Public Law 93-568), also known as the Buckley Amendment, and the regulations formulated by the U.S. Department of Education.

Union College provides eligible students or their parents, when applicable, with the opportunity to review the student's education records, to seek correction of information contained in these records, and to limit disclosure of information from the records.

Eligible students or their parents, when applicable, may file a complaint with the U.S. Department of Education if any of their rights under the Family Educational Rights and Privacy Act of 1974 have been violated. Information concerning the rights enumerated in this act, as well as information concerning complaint procedures, is available in the Registrar's Office.

The College will release directory information to the general public in response to a legitimate request unless the student concerned files a written request with the Registrar that such information be withheld from the public. (Directory information is defined as student

name, address, classification, telephone number, dates of attendance, date and place of birth, degree(s) earned, previous educational institutions attended, and honors and awards received.)

The Privacy Act also prohibits the distribution of grades to parents or guardians without a student's prior written consent, or a statement of dependency from parent or guardian when the student is a dependent as defined under the Internal Revenue Code.

Union College will, however, release records and accounts pertaining to veterans, as well as to other students, to appropriate U.S. government representatives. This exception to all other federal laws is found in Title 38 of the U.S. code, Section 1790(c).

Degrees with Distinction

Honors in Scholarship are recorded on the diplomas of the students earning them. There are three grades of honors designated respectively: *cum laude, magna cum laude,* and *summa cum laude.* These honors are conferred at graduation upon students who satisfy the following conditions of scholarship:

The honor of *cum laude* is awarded to those students who have earned an average standing of 3.5 overall and at Union.

The honor of *magna cum laude* is awarded to the students who have earned an average standing of 3.75 overall and at Union.

The honor of *summa cum laude* is awarded to those students who have earned an average standing of 3.9 overall and at Union.

Students coming from other colleges may receive honors on completing 61 semester hours of resident study and satisfying the conditions of the scholarship prescribed by the faculty, provided they also furnish such evidence of high scholarship in the institution from which they come as may, in the judgment of the faculty, entitle them to become candidates for honors under the regulations.

As a reward for excellence in scholarship and to promote diligence in study and encourage high ideals, the honorary scholastic fraternity of Iota Sigma Nu was founded on May 26, 1936. Membership is open upon election to:

(a) All who have met the requirements for graduation with honors.

(b) All students who have at least 74 hours with a 3.2 quality point standing or 100 hours with a 3.0 quality point standing and who have completed a minimum of two years (64 semester hours) in residence at Union College.

ACADEMIC SERVICES

Academic Advising Career Planning and Placement Services

Upon Admission to Union College, students will begin a process whereby career planners and faculty advisors assist them to articulate their career goals, to select academic courses of study appropriate to those goals, and to achieve suitable placement upon completion of their studies.

Academic Advising is considered to be one of the two most important tasks of the faculty—teaching being first. Each student will meet with an academic advisor on an individual basis in order to select courses for each semester. The advisor is also available to help each student learn how to use the resources at Union College and to find solutions to problems which the student might have.

Each student is assigned an academic advisor in his/her chosen field of study. Students who have not made a vocational or professional choice will also be assigned an academic advisor. Upon declaring a major, an advisor in that field will be assigned.

A Career Counselor is also available to assist students. Inventories, workshops, and individual sessions are used to help students in identifying areas of interest or study and work.

The Career Counselor also assists seniors in preparing a placement file and coordinates employment opportunities. This placement file is sent, at no cost, to prospective employers at the student's request.

Undecided Majors

Students who have not made a vocational or professional choice will be assigned an advisor. Once a choice is made, the student will be reassigned to a faculty advisor in the appropriate discipline.

Planned Curriculum

During the junior year, a curriculum plan will be done by the Registrar. This will indicate the courses the student has already completed toward the degree major on file in the Registrar's Office. This is an agreement between the College and the student. Once the curriculum plan has been completed, only changes approved by the Registrar are binding on the College.

Learning Lab

The Learning Lab offers assistance to students in most freshmen and sophomore level courses. Tutoring is done by trained peer tutors, selected through faculty recommendation, superior academic achievement and personal interviews. Computer assisted instruction is also available in English mechanics and mathematics and in preparing for the various professional examinations. Students should request help as soon as they experience difficulty in a class. There is no fee for using the Learning Lab.

For more information on academic advisement, special services, and counseling, contact the Director of Special Programs.

Computer Facilities

The College has a variety of computers available for student and faculty use, including an HP-3000 minicomputer, an AT&T Unix-based super-microcomputer and numerous microcomputer systems. Four microcomputer laboratories on campus are used for instruction and are available for student and faculty use when not being used for classes. Three are located in Centennial Hall. In room 200, IBM-compatible 286 and 386 microcomputers are available for general use approximately fifty hours each week, primarily late afternoons and evenings — Monday through Thursday. A network system and connection to the Hewlett Packard System provides numerous opportunities for computer users. In room 209 the Ray C. Hensley Business Simulation Center is located. The center contains microcomputers, scanner, laser printer and telecommunication capabilities. In room 110 the Teagle Writing Laboratory is located. It is comprised of Macintosh microcomputers that are used for writing courses and student use. The fourth microcomputer laboratory is located in the Mahlon A. Miller Science Center and contains Apple IIe's and a terminal to the AT&T system.

The Computer Information Systems Program also operates the AT&T system. CIS majors have the opportunity to gain hands-on experience in the operation of this system.

Additional microcomputers are available for use in other areas. A Macintosh and an Apple IIGS are used in the Learning Lab for tutoring and remedial instruction. An Apple IIGS is used by the Music Department in the teaching of its classes, and Apple IIe and an IBM PC are available for use in the various science laboratories.

Most administrative offices use microcomputers connected to the College's administrative minicomputer to assist them in their duties.

Developmental Studies

The Developmental Studies Program is designed to help students become more successful in their college studies. Through this program Union College has recognized that each entering student has different strengths and weaknesses. **It is the sum total of these strengths and weaknesses that leads to either success or failure in college study.** Some of the common weaknesses are in reading, writing, and math skills, as well as in personal skills such as time management, goal setting, and decision making.

The College has developed mandatory courses for students who score

1. below 80% on the English Placement Test,
2. below 80% on the Math Placement Test,
3. below 10th grade on the Nelson-Denny Reading Test,
4. below 12 on the ACT taken prior to September 1989 or 16 on the ACT taken after October 1989.

Students with composite scores of below 21 on the Enhanced ACT Assessment taken after October 1989 or 20 on the ACT taken prior to

September 1989 or 900 on the verbal and quantitative sections of the SAT are required to take these placement tests before being assigned an advisor and registering for classes.

Students who are not required to take the developmental courses listed below may elect to take one or more of them after consultation with their academic advisor.

The mandatory courses include the following four courses, each carrying 3 semester hours of credit:

1. **English 110, Developmental English** — is designed to provide training in college-level language skills and to prepare students for English 111 and other introductory courses.
2. **Mathematics 100, Elements of Mathematics** — is intended for students who need to improve their arithmetic and elementary algebra skills prior to taking other mathematics courses or courses requiring quantitative reasoning.
3. **General Studies 101, College Reading** — is designed to help students increase their reading level to more effectively handle the reading requirement in college texts. The student's reading level will be evaluated thoroughly to determine the entry level.
4. **General Studies 102, Study Skills** — is designed to increase students' academic and personal confidence through two components. The first will aid students to improve their study and time-management abilities. The second will present decision-making skills that will enable students to clarify their goals, values and interests, allowing them to make effective decisions throughout their life.

Community Education

Community Education at Union College provides courses and workshops that satisfy a wide range of educational needs for adults. These courses provide an opportunity to study a variety of subjects for personal enrichment, to acquire skills for career advancement, or to enjoy cultural and leisure activities. Community Education emphasizes learning as a lifelong experience. The close student-to-instructor rapport that characterizes Union College adds an exciting dimension to this learning experience. Community Education attempts to meet the special educational needs of adults through a variety of forums, e.g., short courses (including Elderhostel), seminars, workshops, and conferences. The program also provides opportunities for students to earn continuing education units for short courses and college credit for telecourses available through Kentucky Educational Television.

Adult Education

The adult education program includes the Adult Basic Education unit and the JTPA (Job Training Partnership Act) unit which Union College sponsors in conjunction with the Kentucky Department of Education. These programs enable adults who have not received their high school diplomas to prepare for the GED. In addition, Union College co-sponsors the Adult Literacy program with the Kentucky Literacy Commission.

Library and Learning Resource Center

The Abigail E. Weeks Memorial Library provides a variety of resources and services to support and enrich the College's academic programs. The library, located in the center of campus, houses a collection of more than 100,000 books, periodicals, government documents, audio-visual materials, and computer databases. The library can accommodate over 300 persons in a variety of seating arrangements, including study carrels, tables, group settings and an audio-visual classroom.

The Learning Resource Center is housed within the Library and includes non-print media and audio-visual equipment. The LRC provides educational materials for classroom use and individualized study. The library staff offers individual or group instruction in the use of equipment and materials.

The Library contains several special collections. The most recently added collection is the Cumberland Gap Genealogy Collection, consisting of local genealogy and history information. Additional collections include the Lincoln-Civil War Collection, the Curriculum Collection, the Music Library and the Science Library. The library also serves as the repository for the College Archives.

The College Library participates in state, regional, and national networks, including the

Kentucky Library Network and Southeastern Library Network. The library staff is dedicated to providing members of the Union College community the information resources needed to meet their educational goals.

CURRICULUM

MAJORS AND DEGREE PROGRAMS

A college major is actually a means to an end — the means by which a student prepares for a future career, entrance into graduate school, or some change in life style. Union College offers a wide range of majors and minors, as part of the Bachelor's degree and a number of certificate and 2-year Associate degree programs for those not needing a full 4-year degree.

Degree Area	Major	Minor	Associate Degree	Area of Concentration	Program
APPLIED SCIENCE DIVISION					
Department of Business					
Accounting	X	X	X		
Business Administration	X	X	X		
Business Education	X				
Business and Music	X				
Computer Information Systems	X	X	X		
Economics		X			
Marketing		X			
Office Administration	X	X	X		
Department of Education					
Early Elementary Education	X				
Elementary Education			X		
Middle Grades Education	X				
Secondary Education	X				
Department of Health and Physical Education					
Athletic Training		X			
Health Education		X			
Physical Education	X				
Military Science		X			X
HUMANITIES DIVISION					
Department of English and Foreign Languages					
English	X	X		X	
English with a Journalism Emphasis	X				X
Department of Music and Fine Arts					
Church Music	X				
Drama	X	X			
Music	X	X			
Music and Business	X				
Music Education	X				
Department of Religion and Philosophy					
Christian Education	X				
Philosophy		X			
Philosophy/Religion	X				
Religion	X	X			

Degree Area	Major	Minor	Associate Degree	Area of Concentration	Program
NATURAL SCIENCE DIVISION					
Biology	X	X			
Chemistry	X	X			
Computer Science		X			
Environmental Studies		X			
Mathematics	X	X			
Physics	X	X			
Pre-Dentistry					X
Pre-Engineering					X
Pre-Medical Technology					X
Pre-Medicine					X
Pre-Optometry					X
Pre-Pharmacy					X
Pre-Physical Therapy					X
Pre-Veterinary Medicine					X
Science Education	X				
Mathematics-Physical Science				X	
Science				X	
SOCIAL SCIENCE DIVISION					
Appalachian Semester					X
Appalachian Studies		X			
Criminal Justice	X	X	X		
History	X	X			
History and Political Science	X			X	
Political Science		X			
Pre-Law					X
Psychology	X	X			
Social Studies				X	
Sociology	X	X			

GRADUATE, COOPERATIVE, AND INTERDISCIPLINARY PROGRAMS

Graduate Program in Education

Union College offers a unique graduate program designed for in-service teachers in the public schools. The College grants the 5th year certificate for Kentucky teachers and the M.A. degree in Education in the following areas: reading specialist, elementary education, middle school education, and secondary education with emphasis in either health, history, science, social science, psychology, sociology, or English.

Work beyond the Masters level leading to certification as an elementary or secondary school principal, supervisor of instruction, as well as Rank I (30 hours beyond M.A.) is available. Many courses are offered off-campus.

Qualified holders of the Bachelor's degree should contact the Dean of Graduate Academic Affairs for brochures, catalogs, and information about the graduate program.

Sue Bennett College

Union College has a cooperative agreement with Sue Bennett College, a private two year United Methodist College located in London, Kentucky (25 miles from Union's campus). This agreement facilitates the articulation of transfer credit and provides scholarships for qualified Sue Bennett students who transfer to Union.

Army ROTC

This is a program which provides college trained officers for the regular United States Army, U.S. Army Reserve and U.S. Army National Guard. Union College offers both the Basic and Advanced courses to qualified students. This program is affiliated with Eastern Kentucky University Army ROTC and specific information can be obtained by making an appointment with the ROTC Representative located on the second floor of the Physical Education Building. (See Applied Science Division for curriculum.)

Concurrent Admissions Program (ConAP)

ConAP is a joint program of the Army and Servicemembers Opportunity Colleges to admit new soldiers into a college or university at the same time as they enlist in the Army.

Eligible soldiers are admitted, either on a full or provisional basis, with enrollment deferred until completion of active military service. Provisional admission means that the student may be required to take a reduced course load, to enroll in foundation courses, or to undergo other academic preparation. The student is subject to the college's requirements, as published in this catalog, at the time of enrollment in classes. The admission agreement is in effect for two years following completion of active military service.

Pre-Professional Programs

Union College offers several pre-professional programs that are affiliated with other institutions and agencies. These include Dentistry, Engineering, Medical Technology, Medicine, Optometry, Pharmacy, Physical Therapy, and Veterinary Medicine. College personnel are available in the Natural Science Division to advise and counsel students who are interested in these programs. More specific information can be obtained in the Natural Science Division section of this catalog.

Kentucky Institute for International Studies (KIIS)

Union College is a co-operating member of the Kentucky Institute for International Studies (KIIS). The college joins with other Kentucky colleges and universities to provide summer study opportunities in six different locations. The programs in France, Spain, Mexico, Germany, Austria, and Italy are open to all Union College students and provide courses which contribute to all of our educational programs.

Appalachian Studies

Reflecting the College's primary mission of improving the quality of life of the Appalachian people, Union offers a multi-faceted Appalachian Studies Program. One or more components of the program should be of interest to all students. The program seeks to develop an appreciation of the people, culture and socio-economic conditions of the mountain area; to provide opportunities for direct service, research and personal experience in

the region; to provide the skills and critical understanding needed to work in this area; and to help the student develop an understanding of himself and others.

The program at present consists of the Appalachian Semester outlined in detail below, and of various academic courses, identified in appropriate departmental and division course listings. The student will find an interdisciplinary approach to the history, politics, music, natural resources, economics, and other aspects of the region, which will stand him in good stead no matter where he or she may live later.

Appalachian Semester

The Appalachian Semester is a unique interdisciplinary academic program in which mature second semester sophomore, junior, and senior students from Union College and other institutions throughout the United States devote one full semester to studying the Appalachian region— its strengths, problems and challenges. Students earn a total of fifteen semester hours of academic credit. Nine hours of credit are offered at the upper division level, and six hours are offered at either the lower or upper division level for field work in a variety of disciplines. Field work may be either experiential learning conducted in a local service agency or other institutional settings, or it may be directed study in a particular subject. Possible directed study subjects are oral histories, politics, religion, folklore, and environmental issues. The program is designed to combine classroom learning with first-hand knowledge gained through research or a practicum setting. As such, the Semester hopes to promote a critical understanding of a distinct aspect of American society from an interdisciplinary approach.

Opportunities are provided to discuss regional issues with local scholars, politicians, and writers. Field trips are coordinated with seminar discussions in order to introduce participants with the unique components of Appalachian culture.

Course descriptions are included in the curriculum section of this catalog. The Appalachian Semester is offered both spring and fall semesters. Detailed information and application forms are available from the Coordinator, Appalachian Semester, Union College.

THE LIBERAL EDUCATION CORE

I. BASIC COMPETENCIES — 12 hrs.

A. FRESHMAN COMPOSITION — 6 hrs.

ENGL 111 Freshman Composition I 3
ENGL 112 Freshman Composition and Literature 3

B. MATHEMATICS — 3 hrs.

BHSC 245 Basic Statistics: Theory and Application 3
MATH 108 Intermediate Algebra 3
MATH 110 Applications for Mathematics for College Students 3
MATH 131 College Algebra 3
MATH 203 Structure of the Number System 3

C. PHYSICAL WELL BEING — 3 hrs.

HLTH 131 First Aid and Safety Education 3
HLTH 270 Personal and Community Health 3

OR

Three Physical Education Activity Courses 3

II. HUMANITIES — 12-13 hrs.

A. LITERATURE — 3 hrs.

ENGL 212 Western Literature 3

B. FINE ARTS APPRECIATION — 3-4 hrs.

ART 132 Introduction to Art 3
ART 273 Art History 3
DRAM 131 Introduction to the Theatre 3
MUSIC 121 Introduction to Music 3
MUSIC 161 or 162 Foundations of Music 4

C. LITERATURE/FINE ARTS ELECTIVE — 3 hrs.

An additional course from B above or one of:
ENGL 221 or 222 Survey of English Literature 3
ENGL 231 or 232 Survey of American Literature 3

D. RELIGION AND PHILOSOPHY — 3 hrs.

PHIL 151 Introduction to Philosophy 3
RLGN 111 Old Testament History, Literature and Interpretation 3
RLGN 112 New Testament History, Literature and Interpretation 3
RLGN 131 World Religions 3

III. HISTORY, SOCIAL & BEHAVIORAL SCIENCES — 9 hrs.

A. WORLD HISTORY — 3 hrs.

HIST 111 World History to 1500 3
HIST 112 World History since 1500 3

B. HISTORY ELECTIVE — 3 hrs.

An additional course from A above or one of:
HIST 201 U.S. History to 1865 3
HIST 202 U.S. History since 1865 3

C. SOCIAL SCIENCE — STRUCTURE ELECTIVE — 3 hrs.

ANTH 221 Introduction to Cultural Anthropology 3
ECON 153 Principles of Macroeconomics I 3
GEOG 101 Introduction to Geography 3
PLSC 101 American National Government 3
PSYH 111 Introduction to Psychology 3
SOCI 131 Introduction to Sociology 3

IV. NATURAL SCIENCES 7-8 hrs.

Choose two courses from areas A, B, or C; each of the courses must be in a separate area and one must include a lab.

A. BIOLOGICAL SCIENCE 3-4 hrs.

BIOL 109 Elements of Biology 3
BIOL 111 General Biology 4

B. PHYSICAL SCIENCE 3-4 hrs.

CHEM 101 Introductory General Chemistry 4
CHEM 111 General Chemistry 3
PHYS 111 Elements of General Physics 3
PHYS 112 Elements of General Physics 3

C. ENVIRONMENTAL/EARTH SCIENCE 3-4 hrs.

ENVS 101 Man and the Environment 3
ENVS 110 Physical Systems of the Environment 4
PHYS 105 Astronomy 4

D. LABORATORY EXPERIENCE 1 hr.

If not already included with a course in A, B, or C above.

BIOL 110 Elements of Biology Laboratory 1
(BIOL 109)
CHEM 131 General Chemistry Laboratory 1
(CHEM 111)
PHYS 113 Elements of General Physics Laboratory 1
(PHYS 111)
PHYS 114 Elements of General Physics Laboratory 1
(PHYS 112)

V. COMPLETION OF CORE 6-7 hrs.

Select a course from two of the following 3 areas.

A. COMMUNICATIONS/LANGUAGES 3 hrs.

FREN 111 or 112 Elementary French 3
GRMN 111 or 112 Elementary German 3
SPAN 111 or 112 Elementary Spanish 3
SPCH 131 Public Speaking 3
SPCH 231 Oral Interpretation of Literature 3

B. SOCIAL SCIENCE — PROBLEMS ELECTIVES 3 hrs.

ECON 154 Principles of Microeconomics II 3
GEOG 241 Geography of Appalachia 3
HIST 233 History of Appalachia 3
PLSC 231 International Politics 3
SOCI 241 Sociology of Appalachia 3
SOCI 251 Current Socio-Economic Problems 3
SOCI 271 Marriage and the Family 3

C. NATURAL SCIENCE 3-4 hrs.

Select a course from the Natural Science Division that is in a discipline (Biology, Chemistry, Environmental Studies, Physics) not already used to satisfy Section IV.

Students are expected to complete this core during their Freshman-Sophomore years. Some majors require specific courses. Consult your advisor.

ACADEMIC DIVISIONS

DIVISION OF APPLIED SCIENCES

Larry Inkster, *Chairperson*
Department of Business Department of Education
Department of Health & Physical Education
Military Science (ROTC Program)

I. DEPARTMENT OF BUSINESS

Paula J. Allen, *Department Head*
Accounting — Business Administration — Business Education
Computer Information Systems — Economics — Marketing — Office Administration

BACHELOR OF SCIENCE DEGREES IN BUSINESS

In addition to the general college requirements, all candidates for the Bachelor's degree must complete the following courses in one of the major fields listed below. Students with a major or minor in Business must have a 2.0 average for all courses in each major or minor. (Students who choose to complete the foreign language requirement may elect to receive a Bachelor of Arts degree.)

Common Courses Required of All Candidates		*Semester Hours*
ACTG 271, 272	Principles of Accounting I & II	6
BUAD 310	The Legal Environment of Business	3
BUAD 351	Principles of Finance	3
BUAD 352	Principles of Management	3
COMP 131	Introduction to Computer Information Systems	3
ECON 153	Principles of Macroeconomics I	3
ECON 154	Principles of Microeconomics II	3
MKTG 321	Principles of Marketing	3
		27

and, as applicable:

Accounting Major		*Semester Hours*
ACTG 331	Cost Accounting	3
ACTG 371, 372	Intermediate Accounting I & II	6
ACTG 376	Tax Accounting	3
ACTG 431	Accounting Information Systems	3
ACTG 433	Auditing	3
ACTG 471, 472	Advanced Accounting I & II	6
COMP 241	Microcomputer Applications in Business	3
OFAD 302	Business Communications	3
	Accounting Electives (300 level or above)	3
		33

Business Administration Major		*Semester Hours*
BHSC 245	Basic Statistics: Theory and Application	3
BUAD 372	Personnel Management	3
BUAD 451	Business Policy	3
COMP 241	Microcomputer Applications in Business	3
OFAD 302	Business Communications	3
	Electives from the Department of Business (200 level and above)	12
		27

Computer Information Systems Major		Semester Hours
*BHSC 245 or	Basic Statistics: Theory and Application	3
*MATH 108 or	Intermediate Algebra	3
*MATH 131	College Algebra	3
*BHSC 245 if not used to satisfy Liberal Education Core, otherwise MATH 108 or 131.		
COMP 221, 222	Business Application Programming I and II	6
COMP 331 or	Structured Systems Analysis and Design	3
COMP 332	Object Oriented Analysis and Design	3
COMP 441	Data Bases	3
COMP 455	Applied Software Development Project	3
COMP 235 or	RPG Programming	3
COMP 241	Microcomputer Applications in Business	
	Computer Elective (300 or 400 level)	6
OFAD 302	Business Communications	3
		30

Office Administration Major		Semester Hours
BUAD 372	Personnel Management	3
COMP 241	Microcomputer Applications in Business	3
OFAD 222	Intermediate Keyboarding Applications	3
OFAD 262	Word Processing	3
OFAD 301	Business English: Theory and Applications	3
OFAD 302	Business Communications	3
OFAD 431	Office Systems	4
	Elective from the Department of Business (200 level or above)	3
	Elective from the Department of Business (300 level or above)	3
		28

Business and Music Major		Semester Hours
MKTG 272	Personal Selling	3
MUSC 161, 162	Foundations of Music	8
MUSC 261, 262	Harmony	6
MUSC 111-412	Applied Music	8
MUSC 322	Music History	3
MUSC 171, 172, 173, 175, 176	String, Woodwind, Piano, Brass and Percussion Classes (Choice of any 3)	3
OFAD 302	Business Communications	3
	Elective from the Department of Business (300 level or above)	3
	Field Placement	3-10
		40-47

BACHELOR OF SCIENCE DEGREE IN BUSINESS EDUCATION

Students should see the Education Department section for Certification Requirements.
The Comprehensive Business major will certify teachers to teach business courses in grades 5 through 12.

Teaching Major in Comprehensive Business		Semester Hours
ACTG 271, 272	Principles of Accounting I & II	6
BUAD 151	Introduction to Business	3
BUAD 310	The Legal Environment of Business	3
BUAD 352	Principles of Management	3
BUED 462	Methods of Teaching Comprehensive Business Subjects	4
COMP 131	Introduction to Computer Information Systems	3
COMP 241	Microcomputer Applications in Business	3
ECON 153 or	Principles of Macroeconomics I	3
ECON 154	Principles of Microeconomics II	
EDUC 370	Curriculum Development of the Middle Grades	3
OFAD 222	Intermediate Keyboarding Applications	3
OFAD 262	Word Processing	3
OFAD 302	Business Communications	3
OFAD 431	Office Systems	4
		44

ENDORSEMENT FOR ADVANCED DATA PROCESSING

Students must complete all requirements for a major in Comprehensive Business and a total of nine semester hours of 200 level or above computer information systems courses, including at least three hours in a programming language.

ENDORSEMENT FOR SHORTHAND

Students must complete all requirements for a major in Comprehensive Business and six semester hours in shorthand.

ASSOCIATE OF APPLIED SCIENCE DEGREES IN BUSINESS

The following two-year programs lead to the award of the A.A.S. degrees in the emphasis indicated.

Common Courses Required of All Candidates		*Semester Hours*
ACTG 271	Principles of Accounting I	3
BUED 105	Mathematics Applied to Business	2
COMP 105	Introduction to Microcomputer Packages	3
COMP 131	Introduction to Computer Information Systems	3
ECON 153	Principles of Macroeconomics I	3
ENGL 111	Freshman Composition I	3
ENGL 112	Freshman Composition and Literature	3
OFAD 302	Business Communications	3
	Humanities General Requirement	3
	Natural Science General Requirement	4
	Social Science General Requirement	3
		33

and, as applicable:

Accounting Emphasis (AAS)		*Semester Hours*
ACTG 272	Principles of Accounting II	3
BUAD 310	The Legal Environment of Business	3
COMP 241	Microcomputer Applications in Business	3
ECON 154	Principles of Microeconomics II	3
	Accounting Electives (300 level or above)	12
	Non-Business Electives	6
		30

Business Administration Emphasis (AAS)		*Semester Hours*
ACTG 272	Principles of Accounting II	3
BUAD 310	The Legal Environment of Business	3
BUAD 352	Principles of Management	3
COMP 241	Microcomputer Applications in Business	3
ECON 154	Principles of Microeconomics II	3
	Electives from the Department of Business (200 level or above)	9
	Non-Business Electives	6
		30

Computer Information Systems Emphasis (AAS)		*Semester Hours*
ACTG 272	Principles of Accounting II	3
BHSC 245	Basic Statistics: Theory and Application	3
COMP 221, 222	Business Application Programming I and II	6
COMP 241	Microcomputer Applications in Business	3
COMP 331	Structured Systems Analysis and Design	3
ECON 154	Principles of Microeconomics II	3
MATH 108, 111 or 241	Mathematics Course	3 or 4
	Computer Elective (300 or 400 level)	3
	Non-Business Electives	6
		33-34

Office Administration Emphasis (AAS)		Semester Hours
ACTG 272	Principles of Accounting II	3
BUAD 352	Principles of Management	3
COMP 241	Microcomputer Applications in Business	3
OFAD 222	Intermediate Keyboarding Applications	3
OFAD 262	Word Processing	3
OFAD 301	Business English: Theory and Applications	3
OFAD 431	Office Systems	4
	Non-Business Electives	6
		28

MINORS AVAILABLE TO ALL STUDENTS

Accounting — Twenty-one semester hours in Accounting at 200 level and above.

Business Administration — Accounting 271-272, Business Administration 310 and 352, Computer nformation Systems 131, Economics 153, and three hours of Business electives (200 level or above).

Computer Information Systems — Twenty-one semester hours consisting of the following: Com- puter Information Systems 131, 221, 241, 331 and at least nine additional hours in Computer Infor- nation Systems courses numbered 200 or above (at least three of these hours must be numbered 00 or above).

Economics — Twenty-one semester hours consisting of the following: Economics 153, 154, Behav- oral Sciences 245, Computer Information Systems 105 or 241, and three courses from the following ist, only one of which may be below 300 level: Economics 252, 354, 363, 488, or History 241.

Marketing — Twenty-one semester hours consisting of the following: Marketing 272, 321, 370, nd 421, Computer Information Systems 241, and Economics 153 and 154.

Office Administration — Twenty-two semester hours including Office Administration 222, 262, 01, 431, Business Administration 352, and at least six additional hours in Office Administration ourses numbered 200 or above.

ACCOUNTING

Accounting 170. The Accounting Cycle. (S)(3)
This course is designed for students who have not studied accounting in high school or who need basic remedial studies in accounting. Subjects covered include journalizing, posting, worksheets, adjusting and closing entries. No prerequisites.

Accounting 271. Principles of Accounting I. (F)(3)
Discussion of the concept of double-entry accounting. Introduction to the basic procedures in the accounting cycle, receivables, payables, inventories and other systems.

Accounting 272. Principles of Accounting II. (S)(3)
A continuation of Accounting 271, this course covers accounting procedures relative to partnerships, corporations, budgets, costing and financial report generation. *Prerequisite:* Accounting 271.

Accounting 331. Cost Accounting. (F)(3)
Special topics in job order and process cost for materials, labor, and overhead with variable and fixed portions. Budgeting and variances from budget are also covered. *Prerequisite:* Accounting 272.

Accounting 371. Intermediate Accounting I. (F)(3)
Accounting topics include the income statement, balance sheet and change in owners' equity statements. Cash, receivables, inventories, plant, investments and intangible assets are also covered. *Prerequisite:* Accounting 272.

Accounting 372. Intermediate Accounting II. (S)(3)
Continuation of Accounting 371 covering current liabilities, contingent liabilities, long-term liabilities, accounting for income taxes, and owners' equity. Statement of Change in Financial Position, financial statement analysis and the impact of changing prices are also covered. *Prerequisite:* Accounting 371.

Accounting 376. Tax Accounting. (S)(3)
Problems of federal taxes for individuals, partnerships, and corporations are reviewed in depth. *Prerequisite:* Accounting 272.

Accounting 430. Accounting Theory. **(F)(3)**
Covers current accounting literature, including publications of the American Institute of Certified Public Accountants (AICPA), the Financial Accounting Standards Board (FASB), and the Securities and Exchange Commission (SEC). *Prerequisite:* Accounting 372.

Accounting 431. Accounting Information Systems. **(F)(3)**
This course studies the principles and problems of accounting system design and installation, organization for accounting control, internal control procedures, and internal reports. *Prerequisites:* Accounting 331 and 372.

Accounting 433. Auditing. **(S)(3)**
Topics covered include discussion of the ethics and liability of the auditor, verification, analysis, interpretation of accounting records, issuance of audit reports and other reports by CPA's. *Prerequisite:* Accounting 372.

Accounting 471. Advanced Accounting I. **(F)(3)**
Advanced in-depth discussion of accounting for joint ventures, consolidated statements, inter-company transactions, partnerships. *Prerequisite:* Accounting 372.

Accounting 472. Advanced Accounting II. **(S)(3)**
Continuation of Accounting 471 covering multi-national accounting, interim and segmental reporting, governmental and not-for-profit accounting, and insolvency. *Prerequisite:* Accounting 471.

Accounting 488. Business Seminar. **(on demand)(3)**
An advanced course of selected topics of interest in the field of Accounting. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses.

BUSINESS ADMINISTRATION

Business Administration 151. Introduction to Business. **(F)(3)**
Forms of business ownership, marketing, personnel management, finance, and government regulations are discussed in an overview of organizations.

Business Administration 310. The Legal Environment of Business. **(F,S)(3)**
An overview of traditional legal environment topics such as judicial reasoning, administrative law, anti-trust law, contracts, torts, agencies, bailment, real and personal property, leases, and bankruptcy.

Business Administration 351. Principles of Finance. **(F)(3)**
The principal objective of this course is to introduce managerial finance as a functional area of business, including financial analysis, working capital practices, capital budgeting, corporate valuation, cost of capital and capital structure. *Prerequisite:* Accounting 271.

Business Administration 352. Principles of Management. **(F)(3)**
This course introduces students to the development of organization plans and policies, as well as providing an exposure to basic theoretical developments in management thought over the last one hundred years. Particular attention will be given to the topics of organizational design, control, quantitative techniques of management operations and theories of leadership.

Business Administration 372. Personnel Management. **(S)(3)**
Using a system-process model, this course discusses the various subsystems (recruitment, selection, compensation, task specification, etc.) which fall under the responsibility of the personnel management function. The subsystems are designed to provide for the efficient and effective utilization of human resources in business concerns. Although an understanding of management in general is helpful, Business Administration 352 is not a prerequisite, but strongly suggested.

Business Administration 440. Business Ethics. **(F)(3)**
Sensitizes students to the ethical implications of business activity and provides a theoretical framework within which responsible decisions can be made. The course relates the ethical considerations and legal principles to the corporations's responsibility to society. (May be used as an Accounting elective.)

Business Administration 451. Business Policy. **(S)(3)**
This course serves as a "capstone course" which attempts to bring together knowledge acquired in all of the functional areas of business (management, marketing, finance, accounting, etc.) in a case analysis situation. A strategic decision-making model will be presented as the basis for the alternative courses of action, and the implementation of the strategy chosen. *Prerequisites:* Senior status in the Business Administration program and the successful completion of Accounting 272, Business Administration 351, 352, and 372, and Marketing 321.

Business Administration 488. Business Seminar. (on demand)(3)
An advanced course of selected topics of interest in the field of Business Administration. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses.

BUSINESS EDUCATION

Business Education 105. Mathematics Applied to Business. (F)(2)
The application of basic mathematics to business operations including: Markups, markdowns, interest and discounts, bank reconciliation and graphing.

Business Education 361. Methods of Teaching Secretarial Business Subjects. (on demand)(3)
A study of basic dimensions of methods, materials, and objectives in teaching secretarial subjects in the secondary school. Discussion includes teaching strategies such as questioning, lecturing, problem-solving, constructing lesson plans, constructing valid and reliable tests, interpreting test scores, and presenting lectures on video tapes. *Prerequisites:* Admission to Teacher Education Program, Office Administration 222 and Junior standing. Students must have at least twelve hours from the Union College Department of Business. Transfer students must have permission of the instructor to take this course. This course meets requirements for persons enrolled in the Business Education Secretarial Skills major prior to Fall 1991.

Business Education 462. Methods of Teaching Comprehensive Business Subjects. (F)(4)
A study of the methods, materials, and objectives in teaching comprehensive business subjects in the middle and secondary school. Discussion includes teaching strategies such as questioning, lecturing, problem-solving, constructing lesson objectives, constructing valid and reliable tests, interpreting test scores, and presenting lectures on video tape. *Prerequisites:* Admission to Teacher Education Program and Junior standing. Students must have at least twelve hours from the Union College Department of Business. Transfer students must have permission of the instructor to take this course.

Business Education 488. Business Seminar. (on demand)(3)
An advanced course of selected topics of interest in the field of Business Education. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses.

COMPUTER INFORMATION SYSTEMS

Computer Information Systems 105. Introduction to Microcomputer Packages. (F,S)(3)
A study and evaluation of the major packages available for microcomputers, including word processing, spreadsheet, graphics and data base packages.

Computer Information Systems 121. BASIC Programming. (F)(3)
A study of the BASIC programming language including problem definition, flowcharting, and solving problems that are adaptable to business and/or science applications. Laboratory work designed to illustrate the basic principles of structured programming in BASIC will provide hands-on experience on microcomputers. *Prerequisites:* Business Education 105 or any Mathematics course numbered 108 or above.

Computer Information Systems 131. Introduction to Computer Information Systems. (F,S)(3)
Survey of the fundamental computer concepts, hardware, and operations, especially as applied in a business setting. In the second half of the term, students will be introduced to the fundamentals of programming concepts and documentation standards.

Computer Information Systems 221. Business Application Programming I. (F)(3)
A study of the fundamental principles of algorithm development and structured computer programming used in solving business information systems problems, including an introduction to design and implementation documentation used by industry. Major topics include control structures, elementary data structures, program design techniques, and sequential files. A subset of COBOL is used as the programming language. *Prerequisites:* Computer Information Systems 131 and one of the following: Mathematics 108 or 111 or Accounting 271.

Computer Information Systems 222. Business Application Programming II. (S)(3)
A continuation of Business Application Programming I. A study of systems of programs and the techniques for their design and development. Major topics include modular design of algorithms, uses of bulk storage devices, random files, master-file maintenance systems, advanced report writing and business algorithms, dynamic data structures, and subprograms. *Prerequisite:* Computer Information Systems 221.

Computer Information Systems 235. RPG Programming. (S)(3)
A study of the RPG II programming language includes problem definition, flowcharting, and the solution of problems that are adaptable to business applications. *Prerequisites:* Computer Information Systems 131 and one of the following: Mathematics 108 or 111 or Accounting 271.

Computer Information Systems 241. Microcomputer Applications in Business. (F,S)(3)
A survey of computer applications of information needs in business, of microcomputers, and of information systems that use these needs and a review of the standard software packages available to support a microcomputer-based executive workstation, including hands-on work with word and text processors, electronic spreadsheets, file and data base management systems, graphics packages, and accounting and other common application packages. *Prerequisite:* Successful completion of Computer Information Systems 105 with a grade of "C" or better, or permission of the instructor. *Pre- or co-requisite:* Accounting 271.

Computer Information Systems 250. Scientific Programming. (F)(3)
A study of the fundamental principals of algorithm development and structured programming used to solve problems from the areas of mathematics, the physical sciences, and engineering including an introduction to design and implementation documentation. Major topics are debugging, control structures, and elementary data structures. *Prerequisites:* Any programming language or Mathematics 241.

Computer Information Systems 310. Introduction to Computer Architecture. (S)(3)
A study of the fundamental concepts and terminology of computer architecture (including assembly languages) with emphasis on the relationships among hardware, architecture, systems software, and applications software. *Prerequisite:* Computer Information Systems 221 or 250. (Even years only.)

Computer Information Systems 315. Operating Systems. (S)(3)
Survey of the major components of operating systems, comparing and contrasting various systems including batch, time sharing, and microcomputer systems. *Prerequisite:* Computer Information Systems 221 or 250. (Odd years only.)

Computer Information Systems 331. Structured System Analysis and Design. (F)(3)
A study of the system development life cycle emphasizing documentation and communication aids, interpersonal approaches and techniques used in the analysis and design of new systems for a given problem. Students are expected to be familiar with basic writing skills and application packages. *Prerequisites:* (Computer Information Systems 221 and Accounting 271) or (Computer Information Systems 250 and Chemistry 131 or Physics 213).

Computer Information Systems 332. Object Oriented Analysis and Design. (F)(3)
A study of the object-oriented approach to system development emphasizing documentation and communication aid, interpersonal approaches and techniques used in the analysis and design of new systems for a given problem. Students are expected to be familiar with basic writing skills and application packages. *Prerequisites:* (Computer Information Systems 221 and Accounting 271) or (Computer Information Systems 250 and Chemistry 131 or Physics 213). (Odd years only.)

Computer Information Systems 421. Software Engineering. (S)(3)
A study of the management and technical tools, procedures, and concepts used in creating software systems for specific application. Students will design and implement a software system. *Prerequisites:* Computer Information Systems 331 or 332. (Even years only.)

Computer Information Systems 441. Data Bases. (S)(3)
A study of software design in a data base environment, of data base systems, and of data base programming. A variety of hierarchical, network and relational data bases are studied. *Prerequisite:* Computer Information Systems 332. (Odd years only.)

Computer Information Systems 455. Applied Software Development Project. (S)(3)
A study of application system development and project management. Students will design and implement a comprehensive system to solve a complex case study. *Prerequisites:* Computer Information Systems 331 or 332.

Computer Information Systems 488. Business Seminar. (on demand)(3)
An advanced course of selected topics of interest in the field of Computer Information Systems. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses.

ECONOMICS

conomics 153. Principles of Macroeconomics I. (F)(3)
The primary objective of this course is to introduce the student to macroeconomic theory including a study of the economizing problem, pure and mixed capitalism, demand and supply, the economic functions of government, national income accounting, the business cycle, employment theory, money and banking, and fiscal policy.

conomics 154. Principles of Microeconomics II. (S)(3)
The primary objective of this course is to introduce the student to microeconomic theory, including demand and supply analysis, elasticity, the production function, price and output determination, costs of production, pricing and employment of resources, and market structures.

conomics 251. Environmental Economics. (F)(3)
Societal choice in the use of scarce resources is related to ecosystem survival, environmental quality, and human welfare. (Odd years only.)

conomics 354. Managerial Economics. (F)(3)
This course is designed to illustrate how business managers can utilize knowledge of economic principles to help make managerial decisions. Topics covered will include: market demand, empirical estimation of demand and/or supply, production and costs, decisions under uncertainty, organizational decisions and production decisions. *Prerequisites:* Economics 154 and Behavioral Science 245. (Even years only.)

conomics 363. Money and Banking. (S)(3)
Objectives of this course include introducing the student to the development of the commercial banking system, the Federal Reserve System, and further exploration of fiscal and monetary policy. *Prerequisite:* Economics 153. (Even years only.)

conomics 488. Business Seminar. (S)(3)
An advanced course of selected topics of interest in the field of Economics. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses. Note: More than one, with different titles, may be used to meet Economics minor requirements. (Even years only.)

dditional courses listed under: Behavioral Sciences 245 and History 241.

MARKETING

arketing 272. Personal Selling. (F)(3)
The interpretation of sales techniques and methods, prospecting customers, interviews, sales presentations, demonstrations, and closing the sale are presented. (Formerly Business Administration 272)

arketing 321. Principles of Marketing. (S)(3)
Study of the movement of goods from producer to consumer and an examination of the functions of the marketing process, marketing institutions, channels of distribution, legal aspects, and policy considerations. (Formerly Business Administration 321)

arketing 370. Advertising. (F)(3)
An overview of the social, economic, and marketing environment in which advertising functions. This course will provide an in-depth coverage of advertising activities as they relate to consumer-driven mass media marketing activities. The course will focus on advertising planning and management as well as media strategies available to organizations. Although an understanding of marketing in general is helpful, Marketing 321 is not a prerequisite. (Formerly Business Administration 370)

arketing 421. Business Logisitics. (F)(3)
This course is a study of the broad field of logistics. A major emphasis will be the regulatory environments of each of the major modes of transport: rail, motor, water, air, and pipeline. Emphasis will be placed on the crucial nature of distribution and handling of materials in domestic and international markets. A systems approach to transportation, warehousing, material handling, packaging, etc. will be followed. Although an understanding of Marketing in general is helpful, Marketing 321 is not a prerequisite. (Formerly Business Administration 421)

arketing 488. Business Seminar. (on demand)(3)
An advanced course of selected topics of interest in the field of Marketing. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses.

OFFICE ADMINISTRATION

Office Administration 111. Elementary Keyboarding. **(on demand)(3)**
A first course in keyboarding/typewriting for the secretarial student. Also for those needing one course in typing for personal use. Keyboard and fundamental processes are presented. Students presenting one or more units of high school keyboarding/typewriting may not take this course.

Office Administration 121. Elementary Shorthand. **(on demand)(F)(3)**
Principles of Gregg Shorthand, Series 90. Places emphasis on theory and developing reading and writing skills. Letter transcription introduced. Students presenting one or more units of high school shorthand may not take this class. Laboratory required.

Office Administration 122. Intermediate Shorthand. **(on demand)(S)(3)**
Greater emphasis placed on writing and transcribing with speed and accuracy. Gregg theory and basic typewriting concepts reviewed. *Prerequisite:* Office Administration 222 with a grade of at least a "C" or the equivalent.

Office Administration 221. Dictation and Transcription. **(on demand)(3)**
Emphasis placed on speed in taking dictation and in transcription skills. *Prerequisite:* Office Administration 222 with a grade of at least "C" or the equivalent.

Office Administration 222. Intermediate Keyboarding Applications. **(F)(3)**
Emphasis is placed upon techniques, speed, and accuracy.

Office Administration 262. Word Processing. **(S)(3)**
This course is to strengthen students' use of computer software for performing tasks in a computerized office environment. Emphasis is placed on generating reports and documents used in different offices, such as: sales, accounting, legal, medical, government, and other technical offices. *Prerequisite:* Computer Information Systems 241.

Office Administration 301. Business English: Theory and Applications. **(F)(3**
Comprehensive review of grammar and usage. Emphasizes and reinforces business applications and vocabulary in areas such as business law, word processing, merchandising management, and computer information systems. *Prerequisite:* English 111 with a grade of at least "C".

Office Administration 302. Business Communications. **(S)(3**
Realistic methods of mastering writing skills needed in business situations. Emphasizes instruction in both the basic and advanced techniques of preparing and organizing business letters, memoranda, and reports. Also enhances speaking, reading and listening skills. *Prerequisite:* English 11 or Office Administration 301.

Office Administration 431. Office Systems. **(S)(4**
Emphasis is placed on an information systems approach of office proficiency, records management, internal and external office communications, information processing and administrative support services. Laboratory required. *Prerequisite:* Office Administration 222.

Office Administration 488. Business Seminar. **(on demand)(3**
An advanced course of selected topics of interest in the field of Office Administration. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses.

II. DEPARTMENT OF EDUCATION

Kenneth J. Henry, *Department Head*
Early Elementary Education — Middle Grades Education — Secondary Education

The undergraduate programs in the Department of Education have as their primary objective the preparation of superior teachers for public and private schools.

At Union College the education of prospective teachers is the responsibility of the College as a whole, not the Department of Education alone.

The teacher education programs described in the following pages prepare the student to receive a baccalaureate degree and, upon recommendation of the College, a Kentucky teacher's certificate. A student who wishes to teach in a state other than Kentucky should determine certification requirements in that state (usually quite similar to Kentucky's), and plan his program accordingly. Information on certification requirements in other states is available in the Registrar's Office and in the Career Planning and Placement Office.

Students preparing for teacher certification must be admitted to the Teacher Education Program f the College before they will be allowed to register for any of the professional education courses ther than Education 241, 242 and 351.

Graduates may continue their professional preparation by entering the Graduate Studies Program. separate catalog is available from the Dean of Graduate Academic Affairs.

Goals of the Teacher Education Program

The Teacher Education Program at Union College seeks to ensure the realization of the following utcomes by each student:

1. Professional Knowledge
   - develops a historical perspective of the development of American schooling
   - understands human growth and development
   - possesses knowledge of educational psychology/theories of learning
   - understands various instructional theories
   - has knowledge of special needs populations
   - understands the professional/ethical role of the teacher
   - develops a personal teaching philosophy
2. Professional Abilities
   - identifies and utilizes research to facilitate teaching
   - plans instruction
   - implements instruction
   - evaluates instruction
   - stimulates student learning
   - manages classroom effectively
   - maintains positive relations with students
   - maintains classroom discipline
   - maintains positive relations with colleagues, parents, and community
3. Professional Traits
   - practices appropriate personal/professional behavior
   - receptive to change/new ideas
   - willing to take risks/learns from successes and failures
   - strives for high levels of achievement
   - assumes multiple professional roles
   - seeks opportunities for professional growth
   - attends to special needs populations
   - values cultural diversity

Requirements for Admission to Teacher Education Program

Students who wish to enter teacher education must prepare a folder for presentation to the eacher Education Committee for approval. The folder must be complete before the student is dmitted to the program and must contain the following:

1. Application to the program and an acceptably written essay (2-3 pages) on "Why I want to be a teacher".
2. Documentation to show a minimum composite score on the enhanced ACT of 21 and completion of an essay test. Candidates who do not reach the minimum ACT score may be admitted on the basis of the established minimum score on each of the subtests of the CTBS. Students who present evidence of successful completion of CTBS tests taken at other institutions may be accepted.
3. Four recommendations from instructors submitted prior to Teacher Education Interview.
4. Documentation to show that the student has passed a Teacher Education Interview which evaluates the student's ability to communicate orally.
5. Documentation to show that the student has completed a minimum of thirty hours with a grade point average of 2.5 or better.

6. Documentation to show that the student has completed English 111 and 112 with a grade of "C" or better in both courses.
7. Documentation to show that the student has completed (with a grade of "C" or better) Introduction to Education and Early Involvement at the time of application.

Students who have failed to pass one competency test, or lack one recommendation, or those who are currently enrolled in but have not yet completed Introduction to Education, Early Involvement, and English 112 may be admitted conditionally to the program if all other requirements have been met. Students may retake any CTBS subtest(s) but must complete mandatory tutoring at the Learning Lab before re-taking the subtest(s).

Requirements for Admission to Student Teaching

1. Successful validation of writing proficiency.
2. Formal written application by mid-term of the semester preceding the planned student teaching. Application forms may be obtained in the Department of Education office.
3. Senior standing is a prerequisite for admission to student teaching.
4. Completion of at least 90 semester hours of credit with at least a 2.5 grade point average in all courses attempted and a 2.5 GPA in all work attempted in the area, major, or minor fields for which certification is sought.
5. Completion of three-fourths of all required professional education courses with an academic standing of at least 2.5.
6. Completion of three-fourths of all coursework for the teaching major or area of concentration if student teaching is to be done in this specialization; or completion of all the coursework for the teaching minor if student teaching is to be done in the minor area.
7. Approval of the department in which teaching fields are sought.
8. Moral, social, and ethical behavior acceptable in the school community as well as in the community at large.
9. A valid and current medical examination which includes a tuberculosis test filed with the Teacher Education Committee.
10. Maintenance of good standing since admission to the Teacher Education Program.
11. Completion of institutional prerequisites with respect to time in residence and pre-student teaching laboratory and field experiences.
12. Acceptance by the Teacher Education Committee of the College.
13. No professional education course with a grade below "C" will be accepted.

EARLY ELEMENTARY EDUCATION CURRICULUM

Early Elementary Education (K-4) majors need at least three semester hours each of a Biological and a Physical Science; each must include a lab. Education majors must have a 2.5 overall grade point average for admittance to the program; a 2.5 overall grade point average, and a 2.5 grade point average in the professional education courses for admittance to Student Teaching. Appropriate NTE test(s) must be successfully completed for certification.

I. Preprofessional Courses for Students Preparing to Teach Early Elementary Education (K-4). Preprofessional courses may not be taken by Independent Study.
   A. Anthropology 221 or Anthropology 251 or Political Science 231 . . . . . 3 semester hours
   B. Art 271 — Elementary School Art . . . . . 3 semester hours
   C. Computer Information Systems 105 — Introduction to Microcomputer Packages . . . . . 3 semester hours
   D. English 355 — Children's and Adolescent Literature . . . . . 3 semester hours
   E. Mathematics 203 and 204 — Structure of the Number System . . . . . 6 semester hours
   F. Music 373 — Elementary School Music . . . . . 3 semester hours

G. Physical Education 261 — Physical Education in the Elementary School . . . . . 3 semester hours

H. Physical Education Service Course . . . . . 1 semester hour

I. Psychology 111 — Introduction to Psychology . . . . . 3 semester hours

J. Sociology 241 or Geography 241 or History 233 . . . . . 3 semester hours

K. Speech 131 — Public Speaking . . . . . 3 semester hours

. Professional Preparation for Early Elementary Teachers (K-4). These requirements may not be satisfied by CLEP, Independent Study or the Pass/Fail option. A grade point average of 2.5 is required and no grade below a "C" is acceptable.

A. Education 241 — Introduction to Education . . . . . 3 semester hours

B. Education 242 — Early Involvement Internship . . . . . 3 semester hours

C. Education 341 — Methods of Teaching Mathematics in the Elementary School . . . . . 3 semester hours
(Prerequisites: Mathematics 203 and 204)

D. Education 342 — Teaching Science in the Elementary Grades . . . . . 3 semester hours

E. Education 351 — Human Growth and Development . . . . . 3 semester hours
(Prerequisite: Psychology 111)

F. Education 361 — Reading in the Primary Grades . . . . . 3 semester hours

G. Education 362 — Teaching Reading in the Content Subjects . . . . . 3 semester hours
(Prerequisite: Education 361 or permission of the instructor)

H. Education 432 — Methods and Materials in the Elementary School . . . 4 semester hours

I. Education 433 — Supervised Student Teaching in the Elementary School . . . . . .12 semester hours
(180 hours in one grade level and 180 hours in a non-consecutive grade level)

J. Education 441 — Elementary School Social Studies . . . . . 3 semester hours

K. Education 488 — Professional Interaction in the Schools . . . . . 3 semester hours

L. Psychology 361 — Psychology of Learning . . . . . 3 semester hours
(Prerequisite: Psychology 111)

M. Special Education 365 — Foundations of Education of the Exceptional Child . . . . . 3 semester hours
(Prerequisite: Psychology 111)

See Requirements for Admission to Student Teaching

I. Academic Emphasis

The academic emphasis component must include twenty-one semester hours in one of the following six options.

A. ENGLISH/COMMUNICATIONS:

English 111, 112, 212, 221 or 222 or 231 or 232, 355 and 401 or 421; Speech 131

B. FINE ARTS/HUMANITIES:

Art 271, 273, Music 373, two of the following: Art 132, Drama 131 and Music 121; one elective in Religion or Music numbered 300 or above (3 hrs); and Religion 111 or 112 or 231

C. FOREIGN LANGUAGE:

German 111, 112, 211, 212, 331, 495, Independent Study (6 hrs); OR French 111, 112, 211, 212, 331 and 495 Independent Study (6 hrs)

D. MATHEMATICS STUDIES:

Mathematics 131, 203, 204, 211, 301, Computer Information Systems 121, one elective in Mathematics (3 hrs)

E. SCIENCES:
Biology 111, 232 or 233 or 330 or 331, General Science 471, Environmental Studies 350, Physics 105, 111 and 113 or 112 and 114 or Chemistry 111 and 131

F. SOCIAL AND BEHAVIORAL SCIENCES:

Geography 101, Economics 153 or 154, Political Science 101 or 231, History 201 or 202, Anthropology 221 or Sociology 131; and two electives numbered 200 or above in History or Sociology or Psychology (not to include Psychology 361)

MIDDLE GRADES EDUCATION CURRICULUM

Middle Grade Majors (5-8) need at least three hours each of a Biological and a Physical Science; one must include a lab. Education majors must have a 2.5 overall grade point average for admittance to the program; a 2.5 overall grade point average, and a 2.5 grade point average in the major for admittance to Student Teaching. Appropriate NTE test(s) must be successfully completed for certification.

I. Preprofessional Course Requirements for Students Preparing to Teach in the Middle Grades (5-8). No Preprofessional Course may be taken by Independent Study.

A. Health 270 — Personal and Community Health . . . . . 3 semester hours

B. Physical Education Service Course . . . . . 1 semester hour

C. Psychology 111 — Introduction to Psychology . . . . . 3 semester hours

D. Sociology 241 or Geography 241 or History 233 . . . . . 3 semester hours

E. Speech 131 — Public Speaking . . . . . 3 semester hours

II. Professional Preparation for Middle Grades Teachers (5-8)

These requirements may not be satisfied by CLEP, Independent Study or the Pass/Fail option. A grade point average of 2.5 is required, and no grade below a "C" is acceptable.

A. Education 241 — Introduction to Education . . . . . 3 semester hours

B. Education 242 — Early Involvement Internship . . . . . 3 semester hours

C. Education 361 — Reading in the Primary Grades . . . . . 3 semester hours

D. Education 362 — Teaching Reading in the Content Subjects . . . . . 3 semester hours

(Prerequisite: Education 361)

E. Education 443 — Supervised Student Teaching in the Middle Grades . . . . . 12 semester hours

F. Education 488 — Professional Interaction in the Schools . . . . . 3 semester hours

G. Psychology 361 — Psychology of Learning . . . . . 3 semester hours

(Prerequisite: Psychology 111)

H. Special Education 365 — Foundations of Education of the Exceptional Child . . . . . 3 semester hours

(Prerequisite: Psychology 111)

See Requirements for Admission to Student Teaching

III. Specialization Component

These requirements may not be satisfied by CLEP, Independent Study or the Pass/Fail option. A grade point average of 2.5 is required, and no grade below a "C" is acceptable.

A. Education 352 — Human Growth and Development in the Middle Grades . . . . . 3 semester hours

(Prerequisite: Psychology 111)

B. Education 370 — Curriculum Development for the Middle Grades . . . . . 3 semester hours

C. Education 436 — Methods and Materials for the Middle Grades . . . . 4 semester hours

(Prerequisite: All 200-and 300-level courses listed under Professional Requirements and Professional Preparation)

See Requirements for Admission to Student Teaching

IV. Teaching Fields

(Each student will complete a minimum of 24 semester hours in two fields of study.)

A. ENGLISH AND COMMUNICATION:

English 111, 112, 231 or 232, 355, 401 or 421, 311 or 402, Speech 131, and one English Elective (3 hrs)

B. SCIENCE:

Biology 111, 233 or 321, and 232 or 330; Physics 111 and 113, or 211 and 213; Chemistry 111 and 131; Environmental Studies 110; One of the following sequence of courses: Physics 112, 114 and a Physics Elective (not to include Physics 105); Physics 212 and 214; Chemistry 112, 132, and a Chemistry Elective; or Physics 105 and Environmental Studies 350

C. SOCIAL STUDIES:

History 111, 112, 201, 202, Political Science 101 or 110, Geography 101, Economics 153 or 154, Sociology 131 or Anthropology 221

D. MATH OPTION I:

Mathematics 203, 204, 211, 241, 301, 331, Computer Information Systems 121, and one mathematics elective.

E. MATH OPTION II:

A minor in mathematics plus Mathematics 203 and 204.

SECONDARY EDUCATION CURRICULUM

nion College offers a variety of certification areas for secondary students. Certification for grades 12 includes the following:

A. Areas of Concentration:	English, Mathematics-Physical Science, Science, and Social Studies
B. Teaching Majors:	Biology, Chemistry, Comprehensive Business, English, History, History and Political Science, Mathematics, Physical Education, Physics, and Sociology
C. Teaching Minors:	Biology, Chemistry, Drama, English, Health, History, Mathematics, Physics, Psychology, and Sociology

order to be eligible for certification in a Teaching Minor, Secondary Majors must also be eligible r certification in an Area of Concentration or a Teaching Major. See appropriate catalog listings r academic requirements for each of the Areas of Concentration, Teaching Majors and Teaching inors. Secondary Majors (9-12) need at least three hours each of a Biological and a Physical Science; ne must include a lab. Education majors must have a 2.5 overall grade point average for admittance the program; a 2.5 overall grade point average, and a 2.5 grade point average in the major for lmittance to Student Teaching. Appropriate NTE test(s) must be successfully completed for certi-ation.

Preprofessional Course Requirements for Students Preparing to Teach in the Secondary School (9-12). No Preprofessional Course may be taken by Independent Study.

A. Geography 241 or History 233 or Sociology 241 . . . . . 3 semester hours
B. Health 270 — Personal and Community Health . . . . . 3 semester hours
C. Physical Education Service Course . . . . . 1 semester hour
D. Psychology 111 — Introduction to Psychology . . . . . 3 semester hours
E. Speech 131 — Public Speaking . . . . . 3 semester hours

Professional Preparation for Secondary Teachers (9-12). These requirements may not be satisfied by CLEP, Independent Study or the Pass/Fail option. A grade point average of 2.5 is required and no grade below a "C" is acceptable.

A. Education 241 — Introduction to Education . . . . . 3 semester hours
B. Education 242 — Early Involvement Internship . . . . . 3 semester hours
C. Education 351 — Human Growth and Development . . . . . 3 semester hours
D. Education 452 — Methods and Materials in the Secondary School . . . . . 4 semester hours
E. Education 453 — Supervised Student Teaching in the Secondary School . . . . . 12 semester hours
F. Education 488 — Professional Interaction in the Schools . . . . . 3 semester hours

G. Psychology 361 — Psychology of Learning . . . . . 3 semester hours

(*Prerequisite:* Psychology 111)

H. Special Education 365 — Foundations of Education of the Exceptional Child . . . . . 3 semester hours

(*Prerequisites:* Education 241 and 242)

See Requirements for Admission to Student Teaching.

ASSOCIATE OF APPLIED SCIENCE IN EDUCATION*

	Credit Hours
English 111 and 112 — Freshman Composition	6
Natural Science (Environmental Studies 101 recommended)	4
Sociology 131 — Introduction to Sociology or Sociology 421 — Rural and Urban Sociology	3
Psychology 111 — Introduction to Psychology	3
Humanities Requirement (speech or theatre recommended)	3
Art 271 — Elementary School Art	3
Music 373 — Elementary School Music	3
Education 241 — Introduction to Education	3
Education 351 — Human Growth and Development	3
Education 440 — Early Childhood Education	3
English 355 — Children's and Adolescent Literature	3
Health 270 — Personal and Community Health	3
Sociology 371 — Social Institutions	3
Health 361 — Principles of Nutrition	3
Special Education 365 — Foundations of Education of the Exceptional Child	3
Supervised Experience in Early Childhood Education	3
Electives — Recommended from Appalachian Semester, Kentucky History, Typing, Recreational Leadership, Arts & Crafts, & Structure of Number Systems	12
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ASSOCIATE OF APPLIED SCIENCE FOR GRADUATES OF STATE VOCATIONAL SCHOOLS

Union College offers a program at the associate degree level for students who have earned a diploma from a state vocational school. It is possible to earn up to twenty-four hours of credit toward an associate degree.

	Credit Hours
English 111 — Freshman Composition I	[illegible]
English 112 — Freshman Composition and Literature	[illegible]
Psychology 111 — Introduction to Psychology	[illegible]
Speech 131 — Public Speaking	[illegible]
Natural Science Core Requirement	[illegible]
Social Science Core Requirement	[illegible]
Humanities Core Requirement	[illegible]
Credit for Vocational Block	up to 2
Credits toward specific degree goal	2

*Designed for those who work in day care centers and agencies dealing with small children where teacher certification is not required.

EDUCATION

ucation 241. Introduction to Education. (F,S)(3)
Explores the purposes, functions, and aims of education. Students are taken on an exploration of various topics including: teaching as a profession, historical and philosophical foundations of education, the theories and influences of great education thinkers, legal aspects of education, and the funding and structure of school programs.

ucation 242. Early Involvement Internship. (F,S)(3)
A practical course in which students are assigned to a local school classroom and meet periodically to discuss and generalize their experiences. Acquiring competence in the following: observation, diagnosis, instructional design and planning, use of media and new technology. To be taken concurrently with Education 241. A $15.00 fee is charged. (46 hours of field experience is required.)

ucation 351. Human Growth and Development. (F,S)(3)
This course focuses on basic concepts from human development from conception to death. *Prerequisite:* Psychology 111.

Admission to the Teacher Education Program is a prerequisite for the following courses.

ucation 341. Methods of Teaching Mathematics in Elementary School. (F,S)(3)
Modern methods and materials for teaching mathematics in the elementary school. *Prerequisite:* Mathematics 203-204.

ucation 342. Teaching Science in the Elementary Grades. (F)(3)
The student will examine science curriculum materials and activities in terms of Piaget's developmental stages. Topics will be identified that could be taught using experimental, inquiry, or discovery methods. Lesson plans will be developed using each of the three methods and activities constructed.

ucation 352. Human Growth and Development in the Middle Grades. (S)(3)
This course focuses on the physical, intellectual, personal, social and moral development of children in fourth through the eighth grades, ages 10-13. Socializing influences such as families, peers, school and mass media will also be included.

ucation 361. Reading in the Primary Grades. (F,S)(3)
Basic principles, techniques, and materials for the teaching of reading in the primary grades; emphasis on Methods and Materials which provide for developmental and differentiates instruction. Includes observation, micro-teaching demonstrations, making of lesson plans, and evaluation of a child's readiness. (10 hours of field experience required.)

ucation 362. Teaching Reading in the Content Subjects. (F,S)(3)
Comprehension, study, and reference skills as they pertain to reading in the content subjects; emphasis on language arts and the reading-writing relationship. *Prerequisite:* Education 361 (except for English majors) or permission of the instructor.

ecial Education 365. Foundations of Education of the Exceptional Child. (F,S)(3)
Etiology and assessment of exceptional learning conditions; characteristics of exceptionalities; special education intervention. *Prerequisite:* Psychology 111. (10 hours field experience).

ucation 370. Curriculum Development for the Middle Grades. (F)(3)
This course involves tracing the history of curriculum development in the United States, as well as identifying trends in the curriculum of the middle school. It will include curriculum design, middle school terminology and techniques, social and cultural forces, political forces, programs, organization and evaluation.

ucation 401. Introduction to Counseling and Guidance. (Sum)(3)
Educational, sociological, and psychological foundations of counseling and guidance in schools, colleges, and related service-oriented agencies. Essential counseling and guidance services, policies, practices and procedures. *Prerequisite:* Psychology 111.

ucation 432. Methods and Materials in the Elementary School. (F,S)(4)
Emphasis on language arts and methods in the early elementary classroom. (15 hours of field experience required.)

ucation 433. Supervised Student Teaching in the Elementary School. (F,S)(12)
Laboratory experiences in working with children, teachers, and others in school and community. Supervision by an experienced classroom teacher for a minimum of 12 weeks. Transportation and meals paid by the students. Application to be made one semester in advance. *Prerequisites:* See Requirements for Admission to Student Teaching. A supervisory fee of $100 is charged.

Education 436. Methods and Materials for the Middle Grades. **(F)(4)**
This course focuses on instructional strategies and materials needed for releasing the potential for the middle grade student leading from concrete to abstract learning. The course will include curriculum concepts and designs, innovative activities using hands-on-experiences, techniques of writing lesson plans, the development of a unit of work, materials for journal writing, class demonstrations and evaluation. (15 hours of field experience required.)

Education 440. Early Childhood Education. **(Sum)(3)**
Survey of the physical, emotional, mental, and psychological development of the child under six and the role of the kindergarten teachers in working with such a child.

Education 441. Elementary School Social Studies. **(F,S)(3)**
Methods and materials for the teaching of elementary school social studies, including kindergarten through eighth grade curricula. The philosophies, terminology, and evaluation of methods and materials will be included.

Education 443. Supervised Student Teaching in the Middle Grades. **(F,S)(12)**
Laboratory experiences in working with children, teachers, and others in school and community. Supervision by an experienced classroom teacher for a minimum of 12 weeks. Transportation and meals paid by the students. Application to be made one semester in advance. *Prerequisites:* See Requirements for Admission to Student Teaching. A supervisory fee of $100 is charged.

Education 452. Methods and Materials in the Secondary School. **(F,S)(4)**
Current teaching methods, materials, and innovations in the secondary school with directed observations. (25 hours field experience.)

Education 453. Supervised Student Teaching in the Secondary School. **(F,S)(12)**
Under the direction of an experienced teacher, the student directs the usual teaching activities in the classroom for a minimum of 12 weeks. Application should be made one full semester in advance of the time the teaching is to be done. *Prerequisite:* See Requirements for Admission to Student Teaching. A supervisory fee of $100 is charged.

Education 468. Educational Media. **(Sum)(3)**
Practice in operating educational media and construction of classroom materials. Emphasis on educational television use in the classroom.

Education 488. Professional Interaction in the Schools. **(F,S)(3)**
Discusses the role of the professional teacher including professional values, school community relations, school finance and programs of the school, legal aspects and human interaction in the schools from a variety of perspectives and theories. Addresses the role of classroom management in the learning process.

Education 495. Independent Study. **(F,S)(1)**
Open only to advanced students in the field of Education who wish to do intensive reading in a specific interest area. *Prerequisite:* Twelve semester hours of Education and permission of the Head of the Department.

III. DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

Larry Inkster, *Department Head*
Athletic Training — Health — Physical Education

HEALTH

Students preparing to teach in Kentucky will receive both elementary and secondary certification by fulfilling the requirements of this program.

Requirements for a Minor in Health Education: Twenty-one semester hours which must include Health 131, 270, 311, 340, 361, and 475.

Health 131. First Aid and Safety Education. **(S)**
Designed to aid the student in developing an understanding of the basic principles of accident prevention as applicable to the home, the highway, and the school. First aid measures for various injuries and illnesses are discussed and practiced.

lealth 270. Personal and Community Health. (F)(3)
The relationship of bodily functions to personal health and grooming and to community and natural health.

lealth 311. Health Education —K-12. (S)(3)
The experiences, activities, and instruction of elementary and secondary students that lead to intelligent self-direction of health behavior.

lealth 320. General School and Community Safety. (S)(3)
The review of principles and practices in establishing and maintaining a healthful and safe environment in the school, gymnasium, and playground.

lealth 340. Physiology and Anatomy. (F)(3)
A study of cellular construction, tissues, organs, and systems of the human body. A study of the functions of these organs and systems as it deals with health and physical education discipline.

lealth 361. Principles of Nutrition. (F)(3)
A study of the composition, nutritive value, and utilization of food.

lealth 451. School and Community Health Workshop. (Sum)(3)
Reveals the relationship needed between the school and community to promote the total health of the population. Speakers are secured from official agencies, voluntary agencies, professional agencies, sponsored agencies, and other colleges. Small groups are utilized for discussion, field trips, and study through audio-visual aids.

lealth 461. Nutrition for Special Needs. (S)(3)
A course focusing on the nutrition needs through the life cycle, energy metabolism, and therapeutic applications of nutrition.

lealth 475. Critical Areas in Health. (F,Sum)(3)
Specific health problems confronting society today with particular reference to secondary age students.

lealth 485. Field Experiences in Health. (F,Sum)(3-6)
A directed field experience in some phase of health, with consideration given to both the needs and interests of the student. Opportunities will be available for practical experiences in the school situation, official health agencies, and voluntary agencies.

lealth 495. Independent Study. (F,Sum)(1-3)
Independent study for advanced students only.

PHYSICAL EDUCATION

Students preparing to teach in Kentucky will receive both elementary and secondary certification y fulfilling the requirements of this program.

Requirements for a Major in Physical Education: Thirty-seven semester hours which must include hysical Education 241, 275, 340, 351, 360, 361, 410, 420, 421, 425, Health 340, and four service courses. hysical Education 261 and 461 are required but will not count toward the required 37 hour major.

For students not desiring teaching certification, Physical Education 261 and 461 are not required. ll other course requirements will apply.

A maximum of eight semester hours of service courses may be credited toward graduation. Physical lucation majors must take four service courses. This is the maximum that can be applied to a major, ut others may be taken as electives. The following service courses also meet the elementary and condary requirement for physical education.

hysical Education 111. Beginning Swimming (Non-swimmers only) (S,Sum)(1)

hysical Education 112. Intermediate Swimming. (S,Sum)(1)

hysical Education 121. Team Sports. (F)(1)

hysical Education 122. Volleyball. (F,S)(1)

hysical Education 132. Golf. (S)(1)

hysical Education 133. Tennis and Badminton. (S,Sum)(1)

hysical Education 134. Personal Fitness and Aerobic Activities. (F,S)(1)

hysical Education 136. Weight Training. (F)(1)

Professional Courses

Physical Education 241. History and Philosophy of Physical Education. (F)(3)
From primitive man through the present, with particular emphasis on Greek physical education European systems, and development of physical education in North America. Some research into the history of various sports.

Physical Education 251. Introduction to Athletic Training. (F)(3)
Practical study and evaluation of various methods of conditioning. Emphasis on preventive and protective measures, practical study involving basic principles of massage, bandaging, strapping and first aid. Analysis of the instruction and operation of the training room.

Physical Education 261. Physical Education in the Elementary School. (F)(3
The role of the classroom teacher in physical education. Emphasis is placed on the application of game, movements, exploration, rhythms, and self testing. Included are screening procedures for the assessment of motor development.

Physical Education 271. Sports Officiating. (F)(3
Rules and officiating techniques in football, basketball, baseball, and track. (Odd years only.)

Physical Education 275. Principles of Elementary Movement Forms. (F)(3
An experience in discovering the principles behind basic movement forms at the elementary physical education level. Various movement theories and concepts will be explored and examined on the cognitive and kinesthetic bases.

Physical Education 301. Theories of Coaching Football. (F)(3
The practical study of the game of football, as it applies to the coach and player. A study of the fundamental skills, principles, and concepts.

Physical Education 302. Coaching Men's and Women's Basketball. (F)(3
(Even years only.)

Physical Education 304. Coaching Baseball and Softball. (F)(3
(Even years only.)

Physical Education 311. Advanced Athletic Training. (S)(3
This course will expand on the aspects of introduction to athletic training. Special emphasis will be placed on the evaluation of athletic injuries and illnesses of the athlete.

Physical Education 321. Recreational Leadership. (S)(3
Leadership techniques in music, social games, arts and crafts, dramatics, camping, nature, and sports. Designed to aid students in enriching their own leisure time and to prepare for leadership in teaching, full-time Christian service, and social service.

Physical Education 340. Motor Development. (F)(3
An examination of an individual's motor development across the lifespan. Particular emphasis will be placed on the effect physical activity has on growth and development.

Physical Education 351. Tests and Measurements in Health and Physical Education. (S)(3
Evaluating health and physical education by the construction and administration of tests. Emphasizes reliability, objectivity, validity of tests, and grading systems.

Physical Education 360. Sport in Society. (S)(3
A study of sport as a social institution in contemporary North American society. Emphasis will be placed on sport and its relationship with education, youth, women, politics, racism, and professionalism.

Physical Education 361. Organization and Administration of Physical Education and Athletics. (S)(3
Administration of physical education and athletic programs in schools, with special emphasis on philosophy and leadership styles. Includes budget and finance, office management, curriculum development, facilities, legal factors, and public relations.

Physical Education 410. Exercise Physiology. (S)(
The effects of exercise and physical activity on various systems of the human body. Laboratory activities included. (Even years only.)

Physical Education 411. Rehabilitation of Athletic Injuries. (S)(
This course will expand on the techniques necessary in the rehabilitation and follow-up of athletic injuries.

'hysical Education 420. Physical Education for the Exceptional Child. **(F)(3)**
Health conditions which require the physical education program to be adapted to meet the needs of individuals with handicapping conditions will be studied. Additional emphasis on national, state, and local agencies designed to help meet the needs of these individuals. Some work with a local, exceptional population may be required.

hysical Education 421. Kinesiology. **(S)(3)**
An analysis of human motion and its relation to athletic and gymnastic activities; practical application of these principles. (Odd years only.)

hysical Education 425. Psychological Foundations of Sport and Human Performance. **(F)(3)**
An introduction into the psychological realm of sport and physical activity and its relationship to other disciplines. The objective of this course is to enable students to understand and apply available information from sport psychology in order to make sport and physical activity a more productive and beneficial experience for the participants.

hysical Education 461. Physical Education in the Secondary School. **(F)(3)**
Topical areas such as philosophy, teacher certification, competencies, and professional activities will be covered. Curriculum construction, instructional methods, class management and techniques for teaching specific activities will be considered as they relate to the secondary level.

hysical Education 495. Independent Study. **(F,S,Sum)(3)**
Independent work for advanced students only.

ATHLETIC TRAINING

Requirements for a Minor in Athletic Training: Twenty-four hours which must include Health 31, 270, 340, Physical Education 251, 311, 410, 411, and 421.

Completion of this minor will not automatically certify the student as a qualified Athletic Trainer; ıe National Athletic Training Association (NATA) exam will have to be passed. But, courses included ı the minor plus other courses such as statistics, psychology, and chemistry, already included in ıe liberal education core, will prepare each student in areas necessary for successful completion of ıe exam.

MILITARY SCIENCE PROGRAM (Army ROTC)

The mission of Union College's Army ROTC Department is to commission the future officer leadship of the United States Army. This is accomplished by providing a means for college students pursue an Army commission as a second lieutenant while achieving their academic goals in their ıosen field of study. Students may enroll in the first two years (Military Science 100-200 level ›urses) of Army ROTC without obligation to the military. These students gain an appreciation of ıe roles and missions of our national defense structure as well as military history. Students whose ıture employment goals may require leadership or managerial skills, those with an interest in our ıational defense structure, or those who wish to explore the benefits of a career in the U.S. Army eserves, National Guard, or regular service are encouraged to take the introductory courses. Stuents who desire to receive a commission must contract to complete the advanced courses (Military ience 300-400 level courses) and ROTC Advanced Camp before commissioning.

A two-hour leadership lab is held each week and is required for all registered Military Science 1, 302, 401, and 402 students. A 45 minute physical training lab is held three times weekly for all ilitary Science 300 and 400 level courses. Uniforms are issued for leadership lab participants. A 00.00 monthly allowance is paid to advanced course students participating in Military Science 300 ıd 400 level courses.

A complete military science program is four years in length and is designed to supplement and mplement any regular baccalaureate degree program. Successful completion of the advanced milıry science program qualifies a student for commission as a second lieutenant in one of the 16 cession branches in the U.S. Army. Entrance into other non-accession branches may occur after lditional schooling.

Students desiring to enter the U.S. Army on active duty after completing ROTC must request it rough the Professor of Military Science. Competition for active duty is keen. Students who desire be commissioned in the Army Reserves or National Guard may sign a guaranteed reserve forces ıty contract.

ADVANCED PLACEMENT CREDIT

U.S. military veterans, Reserve, or National Guard personnel who have completed ninety da active duty for training, students with three or more years of junior ROTC, and academic sophomor who complete the six-week Army ROTC Basic at Fort Knox, Kentucky may qualify for entry in the program at the advanced level. Interested students must be pursuing a four-year degree, ha a minimum of four full semesters of undergraduate degree work remaining at time of entry, ar meet all other requisites for commissioned service. A special program for graduate students is al available.

MINOR IN MILITARY SCIENCE

A student may minor in military science by completing seventeen hours of advanced milita science (Military Science 301, 302, 401, 402, and 487), Military Science 202, and either six hours the ROTC Basic Courses or advanced placement credit.

SCHOLARSHIPS

Army ROTC scholarships are available to all students enrolled at Union College. These scholarshi provide full payment of tuition, laboratory fees, an allowance for books and a nontaxable subsisten allowance of $100.00 per month for ten months each year the scholarship is in force. Scholarshi are awarded on a competitive basis. Initial selection is made on campus by a board of Army office Final selection is made at Fort Knox, Kentucky.

High school students are eligible for four-year ROTC scholarships. Applicants interested in o taining a four-year scholarship will be evaluated on the basis of the whole person concept. Studen may qualify for a scholarship if:

a. They are a citizen of the United States. Non-citizens are ineligible for scholarship benefits.

b. They will be at least 17 years of age by October 1, of the year they enter college.

c. They have no moral obligation or personal conviction that will prevent them from:
   1. Supporting and defending the Constitution of the United States against all enemies-forei and domestic.
   2. Conscientiously bearing arms.

d. They satisfactorily explain any record of arrest and/or civil conviction.

e. They receive at least a minimum SAT score of 850 and/or an ACT composite score of 19.

For additional information, including questions on ROTC scholarships and other assistance, s military science officers on campus or the division chair of Applied Sciences.

MILITARY SCIENCE

Military Science 101. Group Dynamics of Leadership. (F)
Development of leadership and problem solving abilities; examination of leadership style a counseling techniques; comparison of civilian and military leadership; and analysis of the Co stitutional historical basis for the U.S. Army.

Military Science 102. Military Skills and Operational Teamwork. (S)
A study of principles, techniques and fundamentals of essential skills to the military professic Map reading, weapons familiarization, communications, and rappelling are some of the top covered. Classes are systematically arranged to promote student participation in group leadersh development and problem solving techniques.

Military Science 202. American Military History. (S)
Examines U.S. Military history from pre-revolutionary times to post-Vietnam; defines the prin ples of war; discusses political-military interactions; develops leadership through group cont butions; case studies which apply the principles of war to historical periods. This course cour toward the history major.

Military Science 203. Intermediate Leadership and Management. (F)
Provides students continued development of basic military skills through practical leadersh experiences in performing emergency medical treatment, drill and ceremonies, physical traini and rifle marksmanship. Principles of leadership and management are presented in classroo discussion.

Military Science 287. Military Science Practicum (Basic). **(on demand)(2,5,6)**
Introduces Military Science in a comprehensive summer field course designed to be taken in lieu of MLSC 101, 102, 202, or 203. This course emphasizes practical field application and leadership development.

Military Science 301. Advanced Leadership and Management I. **(F)(3)**
Introduction to advanced leadership and management, emphasizing the branches of the Army, communication systems, and equipment. Defines principles of leadership and develops leadership through practical application as a leader in field training and physical conditioning.

Military Science 302. Advanced Leadership and Management II. **(S)(3)**
Develops leadership and management ability and military skills in military communications, weapons, and tactics. Develops leadership and command presence through student presentations and practical application as a leader in field training and physical conditioning.

Military Science 401. Fundamentals and Dynamics of the Military Team I. **(F)(3)**
Develop staff officer skills in leadership and management through decision making and problem solving techniques through military planning, administrative and logistical management and detailed training management.

Military Science 402. Fundamentals and Dynamics of the Military Team II. **(S)(2)**
Discusses the impact of world affairs on U.S. Armed Forces; defines overall professional and ethical responsibilities of military officers; development of military officers; development of military management techniques; establishes a basic understanding of military justice and the Geneva convention.

Military Science 487. Military Science Practicum (Advanced). **(on demand)(6)**
Develops leadership through intensive six-week field course of rotating leader/command experience in problem analysis, decision making, and troop leading, while providing in-depth coverage of technical and tactical subjects.

DIVISION OF HUMANITIES

Dianne R. Ferris, *Chairperson*
Department of English and Foreign Languages
Department of Music and Fine Arts
Department of Religion and Philosophy

Humanities 320. Medieval Civilization. **(F)(3)**
An introduction to the history and civilization of Western Europe from 800 to 1450. (Odd years only.)

I. DEPARTMENT OF ENGLISH AND FOREIGN LANGUAGES

Vernon G. Miles, *Department Head*
English — French — German — Spanish
Journalism Emphasis

Statement of Departmental Goals and Assessment Procedures

Departmental Goals and Objectives

The English major, English major with a journalism emphasis, and the English Area at Union College include study in both literature and writing. Requirements promote understanding of the expressive capacities of language and appreciation of the psychological, cultural, and historical insights of literature. Students learn, as well, how to think critically and communicate effectively in a variety of contexts. Graduates find careers in a wide range of fields, including teaching, business and industry, public relations, and journalism. In addition, an English major, an English major with a journalism emphasis, or an English Area provide excellent preparation for graduate study in a variety of areas.

Upon graduation from Union College with a major in English, students should be able to:

1. write essays that follow the conventions of standard English usage, that are clear, organized, developed, and thoughtful, and that demonstrate awareness of audience.
2. read literature with understanding, appreciation, and judgement.
3. demonstrate knowledge of the major traditions of English and American literature.
4. discuss a literary work in the context of its historical period or genre.
5. demonstrate knowledge of the nature and functions of language or of the historical development of English.

Upon graduation from Union College with a major in English with a journalism emphasis, students should be able to meet goals 1-5 above and also:

6. perform the editorial and production skills required in the production of typical print media.
7. understand the role, responsibility, and operation of media in American society.

Upon graduation from Union College with an area in English, students should be able to meet goals 1-5 above and also:

8. demonstrate more extensive preparation in writing and in speech, drama, or journalism.

Statement of Assessment Procedures

All seniors in these three programs will be asked to compile a portfolio of work they have done in courses in the major or area and to write a short analysis of their work. This analysis should include a statement explaining why certain pieces of writing were included in the portfolio and what they show about the student's improvement as he or she has progressed through the major. This will be due two weeks prior to the spring Assessment Day. In addition, on Assessment Day each graduating senior will be interviewed by a departmental committee as part of the process of assessing whether departmental goals are being met.

BACHELOR OF ARTS DEGREE IN ENGLISH

Requirements for a Minor in English

An additional elective English course and Education 362 are required for those seeking teacher certification.

		Semester Hours
ENGL 221	Survey of English Literature I	3
ENGL 222	Survey of English Literature II	3
ENGL 231 or 232	Survey of American Literature	3
ENGL 311	Intermediate Composition	3
ENGL 372	Shakespeare	3
A genre course, chosen from the following		3
ENGL 351	The English Novel: Defoe to Brontes	
ENGL 352	The English Novel: ca. 1850 to D.H. Lawrence	
ENGL 451	Modern Poetry	
ENGL 452	American Novel	
A language course, chosen from the following		3
ENGL 401	Modern Grammar	
ENGL 421	History of the English Language	
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Requirements for a Major in English

In addition to all courses required for the minor, students take one of the following courses:

A period course, chosen from the following		3
ENGL 320	Medieval English Literature	
ENGL 321	English Renaissance Literature	
ENGL 322	Restoration and Eighteenth Century Literature	
ENGL 323	Nineteenth Century Literature	
ENGL 431	Contemporary American Literature	
ENGL 472	Seminar in Literature	3
An English elective		3
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Requirements for a Major in English with a Journalism Emphasis

Students take twenty-four hours of English courses (listed below) and twenty-three hours of Journalism courses which must include JOUR 200, 225, 227 and four practicums. Practicums may be fulfilled by working either on the "Union Express" (JOUR 180 to 480) or on the Stespean (JOUR 190 to 490) or by choosing a combination of the two practicum sets. Four additional "Union Express" practicums and four additional Stespean practicums are available to students during their junior and senior years. Only four hours of practicum may be included in the twenty-three hour Journalism course requirement.

		Semester Hours
ENGL 221	Survey of English Literature I	3
ENGL 222	Survey of English Literature II	3
ENGL 231	Survey of American Literature I	3
ENGL 232	Survey of American Literature II	3
ENGL 311	Intermediate Composition	3
ENGL 401 or	Modern Grammar	
ENGL 421	History of the English Language	3
ENGL 402	Advanced Composition	
or	300-400 level literature course	3
	Elective 300-400 level literature course	3
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Requirements for an Area in English

Eighteen hours in addition to the thirty-hour major. These six courses must include an additional linguistics course (English 401 or 421), English 402 or 419, and courses distributed among drama, journalism, and speech (these may include Speech 131).

Other Requirements

Students preparing to teach high school English are required to take Education 362 and should elect the English major, minor, or area. They should consult the Education Department for full information about course requirements.

All students majoring or minoring in English are advised to take at least six hours of a foreign language.

ENGLISH

English 090-091. English as a Second Language. **(on demand)(0)**
A preliminary, non-credit course for the foreign student seeking to acquire sufficient competence in listening to and speaking the English language to be able to communicate effectively in the classroom and in the college community.

English 110. Developmental English. **(F,S)(3)**
Training in college-level language skills. Designed to prepare students in English 111 and other introductory courses.

English 111. Freshman Composition I. **(F,S)(3)**
Writing papers from a variety of rhetorical approaches and stressing interdisciplinary connections. Reading of short prose pieces as models and for discussion. Must precede English 112.

English 112. Freshman Composition and Literature. **(F,S)(3)**
Literary works and forms from the ancient world to the Middle Ages provide the basis for longer papers emphasizing critical writing and documentation.

A general prerequisite for 200-level courses is the successful completion of English 111 and 112 with a grade of "C" or better.

English 212. Western Literature. **(F,S)(3)**
Survey of Western Literature from early Christian era through 17th Century. *Prerequisite:* English 112.

English 221, 222. Survey of English Literature. **(F,S)(3)**
The first half includes the Middle Ages, the Renaissance, the Restoration and Eighteenth Century, and the second includes the Romantic and Victorian periods, and the Twentieth Century. Either course may be taken separately and not necessarily in sequence.

English 231, 232. Survey of American Literature. **(F,S)(3)**
The first half (1620-1865) begins with the Puritan writers and ends with Walt Whitman and Emily Dickinson, and the second (1865-1945) begins with Regional writers and ends with William Faulkner. Either course may be taken separately and not necessarily in sequence.

English 311. Intermediate Composition. **(S)(3)**
A writing course designed to reinforce and expand expository writing skills with an emphasis on writing as process.

A general prerequisite for literature courses numbered 300 and above is the successful completion of any one of English 212, 221, 222, 231 or 232. Students are urged to consult with members of the department before enrolling for advanced work.

English 320. Medieval English Literature. **(F)(3)**
A study of notable works from selected genres of tenth to fifteenth-century literature with particular attention to Arthurian material, Chaucer, the Lyric, and drama. (Odd years only.)

English 321. English Renaissance Literature. **(S)(3)**
A study of poetry, prose, and non-Shakespearean drama, beginning in the early sixteenth century and ending with Milton. (Odd years only.)

English 322. Restoration and Eighteenth Century Literature. **(F)(3)**
A study of major prose and poetry of the Restoration and eighteenth century, covering Dryden, Pope, Swift, Johnson, and their contemporaries. (Even years only.)

English 323. Nineteenth Century Literature. **(S)(3)**
Major poetry and nonfiction prose of the nineteenth century, with focus on the rise and transformation of Romanticism in England from Blake and Wordsworth to Tennyson and Browning. (Even years only).

nglish 325. Afro-American Literature. **(F)(3)**
A critical and historical study of the development of Afro-American literature in its various forms (slave narrative, essay, folk-tale, short story, poetry, novel, and drama) from its beginning to the present. (Even years only.)

nglish 351, 352. The English Novel. **(F,S)(3)**
Historical study of the growth of the novel as a form. The first course includes novels from Defoe through the Brontes; the second begins ca. 1850 and goes through D.H. Lawrence. Either course may be taken separately and not necessarily in sequence. (Even years only.)

nglish 355. Children's and Adolescent Literature. **(F)(3)**
A course that surveys a wide variety of fiction and poetry enjoyed by children and adolescents and suggests ways of evaluating these works as literature.

nglish 372. Shakespeare. **(S)(3)**
A critical approach to selected histories, comedies, and tragedies, focusing on their timeless human, literary and dramatic qualities.

A general prerequisite for 400-level courses is junior standing.

nglish 401. Modern Grammar. **(F)(3)**
An intensive review of traditional grammar in combination with selected material from structuralist views of linguistic analysis and theories of transformational grammar. Attention will be paid to the practical application of each. (Even years only.)

nglish 402. Advanced Composition. **(on demand)(3)**
Writing competency is reinforced by further developing what has been learned in previous writing courses. The instructor will assign factual narratives, autobiographies, or other significant writing projects.

nglish 419. Composition for Teachers. **(on demand)(3)**
Review of basic elements of composition with regular writing assignments in both expository and argumentative modes. Techniques of marking and evaluation of student papers. Research techniques, a methodology for teaching students to develop a research paper and practical application of the methodology through the assignment of a research paper as an integral part of the course itself.

English 421. History of the English Language. **(F)(3)**
A study of the origins and development of the English language from Anglo-Saxon times to the present. (Odd years only.)

English 431. Contemporary American Literature: Fiction. **(F)(3)**
A critical and historical study of the major American fiction (short stories and novels) since 1940, beginning with Richard Wright and J. D. Salinger and proceeding through the experimental fiction of the present time. (Odd years only.)

English 451. Modern Poetry. **(F)(3)**
American and British poetry, with consideration of ways of reading, criticizing, and writing verse in this century. (Odd years only.)

English 452. American Novel. **(S)(3)**
A critical and historical study of the development of the American novel and its form from its beginning to William Faulkner. (Odd years only.)

English 472. Seminar in Literature. **(S)(3)**
Intensive study of a major writer, group, or literary topic. May be repeated once for credit.

English 495. Independent Study. **(F,S)(3)**
Intensive individual work under supervision, in some phase of English, American, or world literature linguistics, or composition not otherwise covered in the curriculum. *Prerequisites:* Twenty-four hours of English above English 111, 112, and permission of the head of the department. May be repeated for credit.

JOURNALISM

Journalism 180, 280, 380, 480. Journalism Practicum. **(F,S)(1)**
Actual operation of campus newspaper provides experience in reporting, photojournalism, and use of typesetting equipment. 380 and 480 include management. To be taken in sequence.

Journalism 190, 290, 390, 490. Journalism Practicum. (F,S)(1)
Actual operation of campus yearbook provides experience in the basics of photojournalism, design, typesetting, and layout. 390 and 490 include management. To be taken in sequence.

Journalism 200. Introduction to Mass Communication. (S)(3)
Open to all students, this course examines communication theory and its applications in newspapers, magazines and television, the history of journalism, career opportunities and needed skills within the news industry. *Prerequisites:* English 111 and typing proficiency of 20 w.p.m.

Journalism 225. Newswriting. (F)(3)
Basic course in reporting the news. Focus on information gathering, news story content formats, working under deadlines, and use of Associated Press style.

Journalism 226. Feature Writing. (S)(3)
A basic course for journalist. Introduces feature story formats, interview techniques, staff and freelance markets in newspapers and magazines. *Prerequisites:* English 112 and typing proficiency of 20 w.p.m. (Odd years only.)

Journalism 227. Editing, Layout. (S)(3)
Basic instruction in copy editing, page layout and design, headline writing, photo handling, and outline writing. (Even years only.)

Journalism 233. Photojournalism. (on demand)(3)
Reporting the news with a camera. Stresses composing and shooting with a 35mm camera and includes darkroom instruction and experience. Lab fee: $25. (Even years only.)

Journalism 331. Media Law and Ethics. (F)(3)
Examines the segment of U.S. laws which governs freedom of the press (First amendment, libel, invasion of privacy, pornography/obscenity). Reviews press ethicists and applies their theories to print and broadcast media. (Even years only.)

Journalism 332. Editorial and Public Relations Writing. (on demand)(3)
The specialized area of opinion journalism is the focus of this course. Introduces the six categories of editorials, advocacy journalism, editorial cartoons, press releases, and writing for organizations. *Prerequisite:* typing proficiency of 20 w.p.m.

Journalism 333. Sports Writing. (on demand)(3)
Focuses on news and feature coverage of sports events, personalities and trends. Examines techniques for interviewing, analyzing statistics, and acquiring sports information. *Prerequisite:* typing proficiency of 20 w.p.m.

Journalism 340. Advanced Newswriting. (S)(3)
Gathering and writing news in depth on current issues and concerns. Stresses awareness of local, state, national, and world events, and techniques of investigative reporting. *Prerequisite:* Journalism 225. (Odd years only.)

Journalism 345. Print Design, Production, Typography. (F)(3)
Creative and practical aspects of designing and preparing materials in print. Experience in use of 2photographic print shop equipment. Lab fee: $20. *Prerequisite:* typing proficiency of 20 w.p.m. (Even years only.)

Journalism 450. Seminar in Journalism. (S)(3)
Intensive study of journalism issues, including, but not limited to, press freedom, copyright, libel, slander, fair comment, evolution of print media and its current concerns. *Prerequisites:* twelve hours of journalism, Junior or Senior status and recommendations of course instructor. May be repeated for credit. (Even years only.)

Journalism 485. Internship. (4)
Professional experience with an area organization in writing, photography, editing, or design. *Prerequisites:* Fourteen hours of journalism, Junior or Senior status and recommendation of journalism instructor.

Journalism 486, 487, 488, 489. Journalism Practicum. (F,S)(1)
Position of high level responsibility on campus newspaper provides continued experience in editing, layout, and newspaper management. *Prerequisite:* Journalism 480.

Journalism 492, 493, 496, 497. Journalism Practicum. (F,S)(1)
Position of high level responsibility on campus yearbook provides continued experience in photojournalism, layout, and yearbook management. *Prerequisite:* Journalism 490.

FRENCH

The program offers the opportunity to gain understanding of France and its culture as well as a asic knowledge of the French language. Students offering more than one entrance unit in French nd students transferring from other colleges should consult with the instructor before registering r any course in French.

rench 111. Elementary French I. (F)(3)
Basic French grammar; simple reading, practice in the oral and written language.

rench 112. Elementary French II. (S)(3)
Continuation of French 111. *Prerequisite:* French 111 or equivalent.

rench 211. Intermediate French I. (F)(3)
More detailed study of grammatical structure; study of important literary works; individual collateral reading tailored to the student's interests. *Prerequisite:* French 112 or equivalent.

rench 212. Intermediate French II. (S)(3)
Continuation of French 211. *Prerequisite:* French 211 or equivalent.

rench 331. French Civilization. (on demand)(3)
The economic, social, and cultural development of France, French contributions to world civilization. May not count toward fulfillment of the language requirement. **No knowledge of French required.**

rench 495. Independent Study. (F,S)(3)
Intensive independent study of some aspect of French literature or civilization. May be repeated for credit.

GERMAN

The program offers the opportunity to gain some understanding of Germany and its culture as vell as a basic knowledge of the German language. Students offering more than one entrance unit n German and students transferring from other colleges should consult with the instructor before egistering for any course in German.

German 111. Elementary German I. (F)(3)
Basic German grammar; simple reading; practice in the oral and written language.

German 112. Elementary German II. (S)(3)
Continuation of German 111. *Prerequisite:* German 111 or equivalent.

German 211. Intermediate German I. (F)(3)
More detailed study of grammatical structure, reading of important literary works; individual collateral reading tailored to the student's interests. *Prerequisite:* German 112 or equivalent.

German 212. Intermediate German II. (S)(3)
Continuation of German 211. *Prerequisite:* German 211 or equivalent.

German 331. German Civilization. (on demand)(3)
The economic, social, and cultural development of Germany; German contributions to world civilization. May not count as part of the language requirements. **No knowledge of German required.**

German 495. Independent Study. (F,S)(3)
Intensive independent study of some aspect of German literature or civilization. May be repeated for credit.

SPANISH

The program offers the opportunity to gain some understanding of Spanish and Latin American culture as well as a basic knowledge of the Spanish language. Students offering more than one entrance unit in Spanish and students transferring from other colleges should consult with the instructor before registering for any course in Spanish.

Spanish 111. Elementary Spanish I. (F)(3)
Basic Spanish grammar; simple reading; practice in the oral and written language; cultural background.

Spanish 112. Elementary Spanish II. (S)(3)
Continuation of Spanish 111. *Prerequisite:* Spanish 111 or equivalent.

Spanish 211. Intermediate Spanish I. **(F)(3)**
More detailed study of grammatical structure; study of important literary works; individual collateral reading tailored to the student's interests. *Prerequisite:* Spanish 112 or equivalent. (Even years only.)

Spanish 212. Intermediate Spanish II. **(S)(3)**
Continuation of Spanish 211. *Prerequisite:* Spanish 211 or equivalent. (Even years only.)

II. DEPARTMENT OF MUSIC AND FINE ARTS

Betty S. Stroud, *Department Head*
Art — Drama and Speech — Music

ART

Union College course offerings in the field of art provide service courses for several curricula and opportunities for exploration and growth in artistic self-expression.

Art 132. Introduction to Art. **(S)(3)**
An introduction to Art outlining basic approaches, principles, techniques and media as well as styles of expression, both past and present.

Art 271. Elementary School Art. **(F)(3)**
A studio course involving many kinds of art projects in media suitable to and practicable for elementary grades.

Art 273. Art History. **(on demand)(3)**
The intensive study of major movements, personalities, and styles of architecture, painting and sculpture of world art.

Art 495. Independent Study. **(F,S)(3)**
Independent study or research on approved topics. May be repeated for credit.

DRAMA AND SPEECH

Requirements for a Major: A major in Drama consists of the following 33 hours. Six of these hours may be in either upper division dramatic literature courses or a combination of one upper division dramatic literature course and the last three levels of Theatre Practicum.

		Semester Hours
DRAM 251	Fundamentals of Acting	3
DRAM 331	Scene and Light Design	3
DRAM 332	Costume and Make-up Design	3
DRAM 352	Advanced Acting	3
DRAM 365	History of the Theatre to 1642	3
DRAM 366	History of the Theatre since 1642	3
DRAM 451	Directing	3
DRAM 461	Senior Project I	3
DRAM 462	Senior Project II	3
Two of the following		6
DRAM 280, 380, 480	Theatre Practicum	
DRAM 421	Non-Western Theatre and Drama	
ENGL 372	Shakespeare	
		33

Requirements for a Minor in Drama: A minor in Drama consists of the following 21 hours. Six of these hours may be in either upper division dramatic literature courses or a combination of one upper division dramatic literature course and the last three levels of Theatre Practicum.

		Semester Hours
DRAM 251	Fundamentals of Acting	3
DRAM 331	Scene and Light Design	
OR		
DRAM 332	Costume and Make-up Design	3
DRAM 365	History of the Theatre to 1642	3
DRAM 366	History of the Theatre since 1642	3
DRAM 451	Directing	3
Two of the following		6
DRAM 280, 380, 480	Theatre Practicum	
DRAM 421	Non-Western Theatre and Drama	
ENGL 372	Shakespeare	
		21

Drama 131. Introduction to the Theatre. (F)(3)
A broad overview of the history of theatre and drama as well as an introductory study of acting, designing, and directing.

Drama 180, 280, 380, 480. Theatre Practicum. (F,S)(1)
Actual practical experience in preparing productions for Union College Theatre. Participation may be in the area of acting or technical work.

Drama 251. Fundamentals of Acting. (S)(3)
An introduction to the Stanislavsky system of acting. The course will consist of acting exercises, text analysis, and the performance of short scenes. (Even years only.)

Drama 331. Scene and Light Design. (F)(3)
Fundamentals of set and light design for the stage. Practical study of set construction and lighting equipment as well as designing the set and lights for a production. *Prerequisite:* Drama 131 or permission of instructor. (Odd years only.)

Drama 332. Costume and Make-up Design. (S)(3)
Fundamentals of costume design for the stage. Practical study of costume construction and application of stage make-up as well as designing costumes for a period play. *Prerequisite:* Drama 131 or permission of instructor. (Odd years only.)

Drama 352. Advanced Acting. (on demand)(3)
Analysis and performance of scenes from contemporary drama and Shakespeare. *Prerequisite:* Drama 251 or permission of instructor.

Drama 365. History of the Theatre to 1642. (F)(3)
A study of the theatre, drama, and criticism from the Greeks to 1642. *Prerequisite:* Drama 131 or permission of instructor. (Even years only.)

Drama 366. History of the Theatre since 1642. (S)(3)
A study of the theatre, drama, and criticism from 1642 to the present. *Prerequisite:* Drama 131 or permission of instructor. (Even years only.)

Drama 421. Non-Western Theatre and Drama. (on demand)(3)
A study of the traditional forms of theatre and drama in India, Southeast Asia, China, and Japan. *Prerequisite:* Drama 131 or permission of instructor.

Drama 451. Directing. (on demand)(3)
Study of directing techniques, and script analysis culminating in the staging of a one-act play. *Prerequisite:* Permission of instructor.

Drama 461. Senior Project in Theatre I. (on demand)(3)
Advanced work in the theatre arts which consists of selecting, analyzing, and designing a full-length play for production (or a project of comparable magnitude to be chosen in consultation with the instructor). Open to drama majors only.

Drama 462. Senior Project in Theatre II. (on demand)(3)
Continuation of Drama 461: will consist of mounting the production of the full-length play (selected, analyzed, and designed in Drama 461) as part of the Union College Theatre season (or completion of alternative project). *Prerequisites:* Successful completion of Drama 461 and permission of the instructor.

Drama 495. Independent Study in Drama. (on demand)(3)
Independent study or research on approved topics.

Speech 131. Public Speaking. (F,S)(3)
Study of and practice in gathering and organizing material and delivering informative and persuasive speeches.

Speech 231. Oral Interpretation of Literature. (S)(3)
Analysis and performance of narrative prose, poetry, and drama. (Odd years only.)

MUSIC

Objectives:

1. To provide the required curricula for the Bachelor of Arts and the Bachelor of Science in Music, the Bachelor of Music in Church Music, the Bachelor of Music in Music Education.
2. To offer group and private instruction which provides for the development of individual musicianship of the music major, music minor, and general college student.

3. To offer opportunities for participation in music ensembles and music theatre for the musi majors, music minors, and general college students.
4. To provide recitals, concerts, and music theatre for the cultural enrichment of the campus an community.

Music Library: The music library, located in the Fine Arts Building, contains records, scores, listenin and computer assisted music instruction facilities.

DEGREES

Students majoring in music at Union College may pursue the following degree programs:

Bachelor of Music in Music Education
Bachelor of Music in Church Music
Bachelor of Arts in Music
Bachelor of Science in Music
Bachelor of Science in Music and Business

Bachelor of Music in Music Education
(K-12 Certificate)

Candidates for the Bachelor of Music Education will take the following courses (see also Libera Education and graduation requirements).

(Part of general studies for music majors; prerequisite to admittance to the major in music education.

Option I, Instrumental Emphasis		*Semester Hour*
MUSC 161-162	Foundations of Music	8
I. Music Core		
MUSC 111-411	Applied Music	14
MUSC 152, 153, 154, 155, 156, 157, 158, 159	Ensembles	0
MUSC 173-174	Piano Class	2
MUSC 261-262	Harmony	6
MUSC 263-264	Ear-Training	2
MUSC 321-322	Music History	6
MUSC 361-362	Form and Analysis	4
MUSC 417	Senior Recital	1
		35
II. Professional Courses		
EDUC 241	Introduction to Education	3
EDUC 242	Early Involvement Internship	3
EDUC 351	Human Growth and Development	3
EDUC 453	Supervised Student Teaching in the Secondary School	12
MUSC 373	Elementary School Music	3
MUSC 375	Instrumental Methods and Materials	2
MUSC 471	Marching Band Techniques	2
PSYH 361	Psychology of Learning	3
SPED 365	Foundations of Education of the Exceptional Child	3
		34
III. Additional Music Requirements		
MUSC 171	String Instruments Class	1
MUSC 172	Woodwind Instruments Class	1
MUSC 175	Brass Instruments Class	1
MUSC 176	Percussion Instruments Class	1
MUSC 365	Arranging	2
MUSC 474	Instrumental Conducting	2
	Total	77

)ption II, Vocal Emphasis

,USC 161-162	Foundations of Music	8

. Music Core

,USC 111-411	Applied Music	14
,USC 152, 153, 154, 155, 156, 157, 158, 159	Ensembles	0
,USC 173-174	Piano Class	
or 177-178	Voice Class	2
,USC 261-262	Harmony	6
,USC 263-264	Ear-Training	2
,USC 321-322	Music History	6
,USC 361-362	Form and Analysis	4
,USC 417	Senior Recital	1
,USC 475	Pedagogy	2
		37

II. Professional Courses

EDUC 241	Introduction to Education	3
EDUC 242	Early Involvement Internship	3
EDUC 351	Human Growth and Development	3
EDUC 453	Supervised Student Teaching in the Secondary School	12
MUSC 373	Elementary School Music	3
MUSC 374	Vocal Methods for the Secondary School	3
PSYH 361	Psychology of Learning	3
SPED 365	Foundations of Education of the Exceptional Child	3
		33

III. Additional Music Requirements

MUSC 365	Arranging	2
MUSC 473	Choral Conducting	2
		4
	Total	74
Keyboard majors:	Private Voice	2
	Total	76

Option III, Instrumental Endorsement

Completion of Option II plus an additional twelve hours organized as follows: choice of any three of the four instrumental techniques classes, 3 hours; additional applied music study in one of those areas (3 semesters), 3 hours; Instrumental Conducting, 2 hours; and four additional semesters of participation in an instrumental ensemble (for a total of six semesters), 4 hours.

Option IV, Vocal Endorsement

Completion of Option I plus an additional twelve hours organized as follows: Pedagogy — Vocal, 2 hours; Choral Conducting, 2 hours; Voice Class, 2 hours; additional voice study (2 semesters), 2 hours; and four additional semesters of participation in a vocal ensemble (for a total of six semesters), 1-4 hours.

Bachelor of Music in Church Music

Candidates for the Bachelor of Music in Church Music will take the following courses (see also Liberal Education and graduation requirements).

I. Music Core

		Semester Hours
MUSC 111-411	Applied Music	14
MUSC 152, 153, 154, 155, 156, 157, 158, 159	Ensembles	0
MUSC 161-162	Foundations of Music	8
MUSC 173-174	Piano Class	
or 177-178	Voice Class	2
MUSC 261-262	Harmony	6
MUSC 263-264	Ear-Training	2
MUSC 321-322	Music History	6
MUSC 361-362	Form and Analysis	4
MUSC 417	Senior Recital	1
		43

II. Church Music and Professional Courses

MUSC 231	Handbell Methods	1
MUSC 333	Church Music Administration	2
MUSC 335	Hymnology	2
MUSC 337	Church Organs	2
MUSC 373	Elementary School Music	3
MUSC 374	Vocal Methods for the Secondary School	3
MUSC 436	History and Philosophy of Church Music	2
MUSC 437	Church Music Practicum	4
		19

III. Additional Music Requirements

MUSC 171, 172, 175	Instrumental Techniques (choose 2)	2
MUSC 462	Counterpoint	2
MUSC 473	Choral Conducting	2
MUSC 474	Instrumental Conducting	2
	Private Piano or Organ (for voice major)	
	or	
	Private Voice (for instrumental major)	2
		10

IV. Courses in Religion

RLGN 111	Old Testament History, Literature and Interpretation	3
RLGN 112	New Testament History, Literature and Interpretation	3
RLGN 354	Religion in the United States	3
		9
	Total	82

Bachelor of Arts and Bachelor of Science in Music

'andidates for the Bachelor of Arts or Bachelor of Science Degree in Music will take the following ıusic courses (see also Liberal Education and graduation requirements):

I. Academic Emphasis		*Semester Hours*
ıUSC 111-212	Applied Music*	8
ıUSC 161-162	Foundations of Music	8
ıUSC 261-262	Harmony	6
ıUSC 263-264	Ear-Training	2
ıUSC 321-322	Music History	6
ıUSC 361-362	Form and Analysis	4
ıUSC 421-422	Music History Seminar	6
	Ensemble	0
		40

I. Applied Emphasis		
ıUSC 111-412	Applied Music	16
ıUSC 161-162	Foundations of Music	8
ıUSC 261-262	Harmony	6
ıUSC 263-264	Ear-Training	2
ıUSC 321-322	Music History	6
ıUSC 361-362	Form and Analysis	4
	Ensemble	0
		42

*The 212 level must be reached in the student's major applied area.

Bachelor of Science in Music and Business

Candidates for the Degree of Bachelor of Science in Music and Business will take the following courses (see also Liberal Education and graduation requirements):

I. Business Core		*Semester Hours*
ACTG 271-272	Principles of Accounting I and II	6
BUAD 310	The Legal Environment of Business	3
BUAD 351	Principles of Finance	3
BUAD 352	Principles of Management	3
COMP 131	Introduction to Computer Information Systems	3
ECON 153-154	Principles of Economics I and II	6
MKTG 321	Principles of Marketing	3
		27

II. Music Requirements		
MUSC 111-412	Applied Music	8
MUSC 161-162	Foundations of Music	8
MUSC 171, 172, 173, 175, 176	String, Woodwind, Piano, Brass and Percussion classes (choose any 3)	3
MUSC 261-262	Harmony	6
MUSC 322	Music History	3
	Ensemble	0
		28

III. Additional Business Requirements		
MKTG 272	Personal Selling	3
OFAD 302	Business Communications	3
	Elective from the Department of Business (300 level or above)	3
	Field Placement	3-10
		12-19

Minor in Music

Twenty-one semester hours, including Music 161-162; three semester hours selected from either Music 321 or 322; two semester hours of music electives; two years of ensemble; and completion of the 202-level of course numbering in one field of applied music, or eight hours of applied music arranged differently with the consent of the department.

DEPARTMENTAL REQUIREMENTS

Specific requirements for music majors and minors are listed in the Music Department Handbook. Students will be held responsible for requirements in the Handbook. More detailed information is given for the following:

1. Entrance Test: All music majors and minors entering the Department for the first time shall take a placement test in theory and functional piano. The test is for placement only, and in no way affects the entrance to music study.
2. Keyboard Proficiency: All candidates for the Bachelor of Music in Music Education and the Bachelor of Music in Church Music must pass the Keyboard Proficiency Test. For details, see the Music Department Student Handbook.
3. Ensemble Requirements: All music majors are required to participate in a minimum of seven semesters of one ensemble within their major performance area. All music minors are required to participate in a minimum of four semesters in an ensemble within their major performance area.
4. Recital and Concert Attendance: Attendance at departmental recitals and concerts is required of all music majors and minors during each semester of applied music study.
5. Recital Requirements: Candidates for the Bachelor of Music degree and candidates for the Bachelor of Arts or Bachelor of Science degree in Music (Applied Emphasis) must present a full recital on their major instrument or in voice. Candidates for the Bachelor of Arts or Bachelor of Science in Music (Academic Emphasis) may be invited to present a recital by the music faculty.

APPLIED MUSIC—SECONDARY LEVEL

These courses are designed for any music major taking lessons on a secondary instrument, and elective credit for general college students.

Music 101-102. Applied Music **(F,S)(1-2)**
Freshman level secondary applied music study.

Music 201-202. Applied Music. **(F,S)(1-2)**
Sophomore level secondary applied music study.

Music 301-302. Applied Music. **(F,S)(1-2)**
Junior level secondary applied music study.

Music 401-402. Applied Music. **(F,S)(1-2)**
Senior level secondary applied music study.

APPLIED MUSIC—MAJOR LEVEL

These courses are designed for students enrolled in Music and Business and for students seeking a Bachelor of Arts or a Bachelor of Science degree with a music major or minor, applied emphasis, and for the Bachelor of Music in Church Music or Music Education.

Music 111-112. Applied Music. **(F,S)(1-2)**
Freshman major or minor level applied music study.

Music 211-212. Applied Music. **(F,S)(1-2)**
Sophomore major or minor level applied music study.

Music 311-312. Applied Music. **(F,S)(1-2)**
Junior major level applied music study.

Music 317. Junior Recital. **(F,S)(0-1)**

Music 411-412. Applied Music. **(F,S)(1-2)**
Senior major level applied music study.

Music 415-416. Applied Field Literature. **(on demand)(2)**
A study of the literature for the student's major instrument, and related instruments where appropriate, with attention to stylistic characteristics and ornamentation.

Music 417. Senior Recital. (F,S)(0-1)

Music 418-419. Sight-Reading and Accompanying. (on demand)(1)
Proficiency in reading the various clefs, vocal scores; and accompaniments, with emphasis on the techniques of sensitive accompanying. Keyboard majors and selected minors only.

HISTORY AND APPRECIATION

Music 121. Introduction to Music. (F)(3)
An historical approach to music appreciation focusing on period and style. Extensive listening to music literature. Not open to music majors or minors.

Music 122. Introduction to the History of American Popular Music. (S)(3)
An historical approach involving the study of styles and personalities beginning with the origins of jazz and ending with current trends and concepts. Open to all students.

Music 321, 322. Music History. (F,S)(3)
A study of representative music both written and recorded and readings coordinating and integrating music skills. (321) Antiquity through 1750. (322) Classic period to the present. *Prerequisite:* Music 162.

Music 421-422. Music History Seminar. (on demand)(3)
Intensive study of a selected period or genre. Major paper required. *Prerequisites:* Music 321, 322.

CHURCH MUSIC

Music 231. Handbell Methods. (F)(1)
A study of the techniques, methods, materials, and repertory of English handbell ringing. *Prerequisite:* Music 162 or permission of instructor.

Music 333. Church Music Administration. (F)(2)
The role of the minister of music as related to the graded adult, youth, and children's choir programs, budget and calendar planning, the congregation, the multiple staff church, and the denomination.

Music 335. Hymnology. (S)(2)
The study and analysis of the hymns of the church, their sources, development, and usage in contemporary service.

Music 337. Church Organs. (F)(2)
The study of the history of the instrument, types of organs, basic upkeep, techniques, and service repertoire.

Music 436. History and Philosophy of Church Music. (S)(2)
A detailed, historical study of music within the church relating to its origin and development, with emphasis upon liturgies and historic philosophical positions of the church on music.

Music 437. Church Music Practicum. (on demand)(4)
One semester or one summer of supervised field work in an approved church. *Prerequisite:* Consent of the Music faculty.

ENSEMBLES

Music 151. Orchestra. (F,S)(0-1)
Open by audition or invitation. Participation in the activities of the Chamber Orchestra of the Cumberlands, a college/community orchestra of modest size. One rehearsal per week. May be repeated for credit.

Music 152. Union College Singers. (F,S)(0-1)
Open by audition only; performs in chapel, Christmas concert, Spring concert, graduation, tours, and festivals. Limited to forty-nine students; four rehearsals per week. May be repeated for credit.

Music 153. Stage Band. (F,S)(0-1)
Open by audition only. A jazz-oriented ensemble of appropriate instrumentation limited to twenty students. One rehearsal per week. May be repeated for credit.

Music 154. Pep Band. **(F,S)(0-1**
Open to all interested wind and percussion students. A performance group intended to giv support and entertainment at home athletic events. Two rehearsals per week. May be repeate for credit.

Music 155. Brass Chamber Ensemble. **(on demand)(0-1**
Open by audition only. Size and make-up will vary with the needs and interests of the student enrolled. One rehearsal per week. May be repeated for credit.

Music 156. Collegium Musicum. **(on demand)(0-1**
Open to interested students. A performance group intended to give the student acquaintanc with less frequently performed literature. One rehearsal per week. May be repeated for credit.

Music 157. Woodwind Chamber Ensembles. **(on demand)(0-1**
Open by audition only. Size and make-up will vary with the needs and interests of the student enrolled. One rehearsal per week. May be repeated for credit.

Music 158. String Chamber Ensemble. **(on demand)(0-1**
Open by audition only. Size and make-up will vary with the needs and interests of the student enrolled. One rehearsal per week. May be repeated for credit.

Music 159. Union College Chamber Singers. **(F,S)(0-1**
A select vocal ensemble composed of a small number of singers whose repertory consists of voca chamber music. Open by audition. May be repeated for credit.

THEORY

Music 161-162. Foundations of Music. **(F,S)(4**
A combined course in the areas of music theory, history, and literature.

Music 261-262. Harmony. **(F,S)(3**
Continuation of Music 161-162 in the area of part-writing and analysis. Advanced chromatic har mony of the middle Romantic period. *Prerequisite:* Music 162.

Music 263-264. Ear-Training. **(F,S)(1**
Sight-singing, ear-training, and dictation to be taken concurrently with Music 261-262. Two period per week. *Prerequisite:* Music 162.

Music 361-362. Form and Analysis. **(F,S)(2**
The development of musical forms from small units to large. Study of large scale analytic tech niques including those necessary for late 19th and 20th Century music. *Prerequisite:* Music 262.

Music 365. Arranging. **(S)(2**
Basic techniques of orchestration and arranging. *Prerequisite:* Music 162.

Music 461-462. Counterpoint. **(461 on demand, 462 F, odd years)(2**
The vocal counterpoint of Palestrina and the instrumental counterpoint of Bach. *Prerequisite:* Musi 162.

Music 465. Theory Seminar. **(on demand)(3**
An advanced course in music theory, including a study of contemporary practices. *Prerequisite* Music 362 and permission of the instructor.

MUSIC EDUCATION

Music 171. String Instruments Class. **(F)(1**
Class instruction in strings. (Even years only.)

Music 172. Woodwind Instruments Class. **(S)(1**
Class instruction in woodwinds. (Odd years only.)

Music 173-174. Piano Class. **(F,S)(1**
Class instruction in piano.

Music 175. Brass Instruments Class. **(F)(1**
Class instruction in brass. (Odd years only.)

Music 176. Percussion Instruments Class. **(S)(1**
Class instruction in percussion. (Even years only.)

Music 177-178. Voice Class. **(F,S)(1**
Class study for students who are not prepared to study at the level of private applied voice.

Music 373. Elementary School Music. (S)(3)
Methods and materials in the elementary school. Will include fundamental ability at the keyboard, the fundamentals of music, and library research. Includes die observation of and participation in public school classroom activities for music majors.

Music 374. Vocal Methods for the Secondary School. (F)(3)
Materials, rehearsal techniques, and vocal health for the secondary school student. Includes directed observation of and participation in public school classroom activities. *Prerequisite:* Junior standing.

Music 375. Instrumental Methods and Materials. (S)(2)
Teaching Instrumental Music in the Public Schools: Procedures, techniques, curriculum, scheduling, administration, evaluation, materials, equipment, and community relations. Includes directed observation of and participation in public school classroom activities. *Prerequisites:* Music 171, 172, 175, 176, and Junior standing.

Music 471. Marching Band Techniques. (F)(2)
Functions, organization, and direction of a school marching band program. *Prerequisite:* Junior standing.

Music 473. Choral Conducting. (F)(2)
Techniques and literature. (Odd years only.)

Music 474. Instrumental Conducting. (F)(2)
Techniques and literature. (Even years only.)

Music 475. Pedagogy. (on demand)(2)
Techniques and principles of private and class instruction, emphasis on recommended materials.

INDEPENDENT STUDY

Music 495. Independent Study. (F,S)(2-3)
Independent study and/or research on approved topics. *Prerequisite:* Permission of the student's major professor. May be repeated for credit.

III. DEPARTMENT OF RELIGION AND PHILOSOPHY

L. Edward Phillips, *Department Head*
Christian Education — Religion — Philosophy — Philosophy/Religion

Courses in this Department are designed to acquaint students with the Judaeo-Christian heritage and the other great religious traditions and with the disciplines of human thought; to deepen their awareness of themselves and of the human community; to cultivate their powers of critical examination of the meaning and direction of human existence.

Studies in religion are especially recommended for students of art, history, and literature, and for students preparing for Christian vocations.

Studies in philosophy are especially recommended for pre-professional education for such vocations as the Christian ministry, college teaching, law, journalism, creative writing, and art, as well as for students of history, literature, and the sciences.

CHRISTIAN EDUCATION

In recognition of increasing demand for trained men and women as full-time Christian workers in the ministry of the local church, to serve in the capacities of pastor's assistant, director of youth work, or Director of Christian Education, a specific four-year course of study has been arranged, using the facilities of various departments. It is designed to meet the basic needs of students who wish to go directly into church positions without graduate work.

The thirty-hour major must include the following courses: Philosophy 261, Physical Education 321, Religion 111, 112, 222 and 311, and Speech 131.

Nine additional hours in religion courses numbered above 300 complete the major. Psychology 402 may be substituted for one of these three courses. Courses in music, drama and Appalachian Studies are recommended. A second major or minor in drama or music is strongly suggested.

RELIGION

Requirements for a Major: The twenty-four semester hour major, recommended for Christia Education and pre-ministerial students, must include Religion 111, 112, 311, plus Philosophy 261 The major may include Philosophy 371.

Requirements for a Minor: Twenty-one semester hours, at least nine of which must be in course numbered above 300.

Religion 111. Old Testament History, Literature, and Interpretation. **(F)(3**
The history of Israel from the earliest times to the Maccabean Age. Historical and literary criticisr and religious significance of the emergence of Judaism.

Religion 112. New Testament History, Literature, and Interpretation. **(S)(3**
Attention to author, date, origin, historical and religious significance.

Religion 131. World Religions. **(S)(3**
A descriptive account of the faith and practices of present-day world religions, with emphasis o Hinduism, Buddhism, Confucianism, and Islam.

Religion 201-202. Elementary New Testament Greek. **(on demand)(3**
A semi-inductive approach to koine Greek recommended for persons interested in religion as we as for religion majors.

Religion 212. Old Testament Prophets. **(F)(3**
The nature of prophecy and the prophetic movement in Israel from its beginning with Moses t its close with the book of Jonah. *Prerequisite:* Religion 111 or permission of the instructor. (Eve years only.)

Religion 222. Administration and Education in the Local Church. **(S)(3**
Administrative responsibilities of the Director of Christian Education as related to the pastor, loca church governing body, and the congregation. Theory and practice of Christian Education wit special attention to planning a year's program in the local church.

Religion 231. The Life and Teachings of Jesus. **(S)(3**
The world into which Jesus was born and an interpretation of his messianic consciousness, per sonality, activities, and teachings. *Prerequisite:* Religion 112 recommended. (Even years only.)

Religion 241. The Life and Teachings of Paul. **(F)(3**
The world of Paul, his life, teachings, and significance, using his letters as the primary source *Prerequisite:* Religion 112 recommended. (Even years only.)

Religion 301-302. Elementary Old Testament Hebrew. **(on demand)(3**
A study of sufficient grammar to read simple Old Testament passages, recommended for person interested in religion as well as for religion majors.

Religion 311. Introduction to Christian Thought. **(S)(3**
Examination of tradition and contemporary understanding of the Christian faith, with emphasi on the nature of God and of humanity; the significance of Christ and the Church; the relation o religion to morality; the meaning of Creation and Redemption; and the interpretation of Huma Destiny. *Prerequisite:* Religion 112. (Even years only.)

Religion 327. Archaeology and the Bible. **(on demand)(3**
Archaeological discoveries related to the Old and New Testament eras, supplemented by wid reading in books, magazines and newspapers, and class reports, color slides and movies.

Religion 353. Church History. **(on demand)(3**
The origin and development of the Christian Church from its beginning through the Reformation

Religion 354. Religion in the United States. **(F)(3**
This course provides students with a phenomenological and historical description of the varietie of religious practice in the United States. No prerequisites. (Odd years only.)

Religion 479. Seminar in Religion. **(on demand)(3**
Intensive study of a special subject with oral and written reports. Possible topics include Th Fourth Gospel, Apocalyptic Literature, Pauline Theology, Wisdom Literature, The Apostolic Pe riod. *Prerequisites:* Advanced standing and permission of the instructor.

Religion 495. Independent Study. **(F,S)(3**
Independent study or research on approved topics. May be repeated for credit.

PHILOSOPHY

Requirements for a Minor. Twenty-one semester hours.

ilosophy 151. Introduction to Philosophy. **(F,S)(3)**
Both a study of the nature of philosophy, its aims, problems, and methods, and an exercise in philosophizing in which students clarify constructively and evaluate critically their own and other understandings of life.

ilosophy 202. Logic. **(on demand)(3)**
Cultivation of rational acuity through an examination of the procedures and limits of rational discourse.

ilosophy 261. Philosophy of Religion. **(F)(3)**
An introduction to basic modern concepts, issues, and methods in the philosophical examination of religion.

ilosophy 371. Ethics. **(F)(3)**
Cultivation of reasoning in moral decision-making through an examination of traditional ethical theories, contemporary moral issues and the structure of moral decision.

hilosophy 376. History of Western Philosophy I: Ancient and Medieval. **(on demand)(3)**
Philosophical thinking in its cultural context, from its birth through the classical and medieval eras.

hilosophy 377. History of Western Philosophy II: Modern. **(on demand)(3)**
The rise and development of modern thought-forms through the nineteenth century.

hilosophy 378. History of Western Philosophy III: Contemporary. **(on demand)(3)**
Twentieth century western thinking and its nineteenth century backgrounds, with particular reference to modern idealism, phenomenology, existentialism, pragmatism and the analytical movement. *Prerequisite:* any philosophy course.

hilosophy 479. Seminar in Philosophy. **(on demand)(3)**
Intensive study of a special topic such as Epistemology, Metaphysics, Plato, Kant. *Prerequisite:* Permission of instructor.

hilosophy 495. Independent Study. **(F,S)(3)**
Independent study or research on approved topics. May be repeated for credit.

PHILOSOPHY/RELIGION

The Philosophy/Religion major is recommended for students interested in pursuing studies in the aditions of Western Thought and Values. It is a useful course for pre-professional training in such reas as law, teaching, and Christian vocations. It is also an appropriate major for students seeking road liberal arts backgrounds or preparation for graduate study in philosophy or religion.

he major consists of thirty hours including the following courses:

Religion 111. Old Testament History, Literature and Interpretation
Religion 112. New Testament History, Literature and Interpretation
Religion 311. Introduction to Christian Thought
Philosophy 151. Introduction to Philosophy
Philosophy 202. Logic
Philosophy 376. History of Western Philosophy I: Ancient and Medieval
Philosophy 377. History of Western Philosophy II: Modern

The remaining three courses may be elected from courses in Religion or Philosophy at the 300 evel or above. It is strongly recommended that at least one of these courses be either Religion 479 r Philosophy 479.

DIVISION OF NATURAL SCIENCES

Robert W. Swanson, *Chairperson*
Biology — Chemistry — Computer Science — Environmental Studies
General Science — Mathematics — Physics — Science Education

BIOLOGY

Requirements for a Major: A major in Biology consists of the courses listed below plus an additiona 8 hours in Biology.

		Semester Hou
BIOL 111	General Biology	4
BIOL 232	General Zoology	4
BIOL 233	General Botany	4
BIOL 361	Genetics	4
BIOL 431	Cell Biology	
OR		
CHEM 421	Biochemistry	3
BIOL 441	Ecology	4
CHEM 111-112	General Chemistry	6
CHEM 131-132	General Chemistry Laboratory	2
GNSC 471	Science Seminar	1
One of the following groups of Physics courses		7-9
PHYS 111-112	Elements of General Physics	
PHYS 113	Elements of General Physics Laboratory	
OR		
PHYS 211-212	General Physics	
PHYS 213	General Physics Laboratory	

Those students seeking secondary certification must complete two semesters of physics laboratory

Biology 234 and 331 are highly recommended as electives for students seeking secondary certificatio Recommended additional cognates consist of Mathematics 241 and Chemistry 212, 311-312.

Requirements for a Minor: Twenty-four semester hours in Biology are required. Biology 111, 23 and 233 must be included. Students seeking secondary certification must complete either the are of concentration in science or major in mathematics, chemistry or physics.

Biology 109. Elements of Biology. (F,S,Sum)(3
An introduction to the principles of modern biology including: biological chemistry, cell biolog modern and classical genetics. cellular energetics, and evolution. A survey of mammalian phy iological systems is also covered.

Biology 110. Elements of Biology Laboratory. (F,S)(1
Optional laboratory course to accompany Biology 109. No credit will be given for Biology 11 without simultaneous or prior successful completion of Biology 109.

Biology 111. General Biology. (F)(4
A course emphasizing general concepts of modern biology for majors and non-majors. Topic surveyed include cell biology, bioenergetics, molecular and Medelian genetics, reproduction, de velopment, evolution and ecology. Human relevance is stressed. Laboratory work is include This course is a prerequisite to all other courses in biology. *Prerequisites:* High school biology an chemistry strongly recommended; ACT Natural Science score of 25 or higher recommended fo freshmen.

Biology 151. Medical Terminology. (F)(2
The study of the specialized terminology of medical science. Recommended for pre-professiona students, biology majors, allied health students, and students in other health-related fields. Thos seeking secondary certification cannot count this course toward certification requirements. Th course does not meet the biological science requirement for teacher education. (Odd years only

Biology 232. General Zoology. (F)(4
A survey of the animal kingdom with emphasis on diversity, evolution, and environmental rela tionships. Additional topics include energy metabolism, taxonomy, reproduction, population ph nomena, behavior and sociology.

iology 233. General Botany. (S)(4)
A survey of the organisms which possess cells walls including: Protoctista, Fungi, and especially the Plants. Emphasis is given to ecological and economic importances, morphology, and evolutionary relationships. The course also involves a brief review of major biological concepts such as cell structure, cell energetics, and classical and molecular genetics.

iology 234. Microbiology. (S)(4)
An introduction to the classification, morphology, physiology, and genetics of the bacteria, fungi, viruses, and micrometazoans, as well as their roles in nature, health, and industry. Laboratory work stresses techniques for the culture and identification of microorganisms. A portion of the course is devoted to immunology. *Prerequisites:* Biology 111 and Chemistry 111. (Even years only.)

iology 321. Field Biology. (S)(3)
Field investigations including observation, collection, and identification of local fauna and flora are offered under discrete course headings including: Limnology, Ornithology, Entomology, Local Flora, Dendrology, and Mycology. Pertinent field data are collected and analyzed appropriately. Two one-hour lectures and one three-hour laboratory session per week. (Even years only.)

iology 330. Anatomy and Histology. (F)(4)
A study of the tissues, organs, and organ systems of vertebrates with emphasis on the human body in health-related sciences. (Odd years only.)

iology 331. Human Physiology. (S)(4)
A study of the functioning of the human organ systems with normal and clinical considerations. *Prerequisites:* Chemistry 112 and 132. (Odd years only.)

iology 361. Genetics. (F)(4)
An introduction to the principles of inheritance from both classical and molecular perspectives. *Prerequisites:* Math 131 and 211 (or Behavioral Science 245).

iology 431. Cell Biology. (F)(3)
An indepth survey of the structure and function of a wide range of living cells with consideration of biochemical and biophysical bases of this structure and function. Certain characteristics of viruses are also considered. *Prerequisites:* Chemistry 112, 132; Biology 111, 232 and 233. Prior completion of Chemistry 311 and Biology 234 is desirable. (Even years only.)

iology 436. Evolution. (S)(3)
An introduction to the theory and processes of evolutionary biology. Topics include the historical development of the discipline, the principle mechanisms by which it occurs, tempo and mode of speciation, both biological and geological sources of evidence, and the impact of evolutionary thought on biology and society. (Even years only.)

iology 441. Ecology. (S)(4)
A study of the relationships between organisms and their abiotic and biotic environment including biogeochemical cycles, population dynamics, diversity, communities, and pollution of terrestrial and aquatic ecosystems. *Prerequisites:* Biology 232 and 233. Completion of Biology 361 is recommended.

CHEMISTRY

Requirements for a Major: Thirty semester hours of Chemistry including Chemistry 111, 112, 131, 132, 212, 311, 312, and 342. Science cognates consist of Physics 211, 212, 213, 214, 311; Mathematics 241, 242; and General Science 471.

Requirements for a Minor: Twenty-one semester hours including Chemistry 111, 112, 131, 132, 311 and either 212 or 411.

Chemistry 101. Introductory General Chemistry. (Sum)(4)
A study of the general principles including laws of definite and multiple proportion, stoichiometry, gases, electronic structure, chemical bonding, periodic relationships, chemical equilibrium and acids/bases. Laboratory activities included. Intended for students interested in a one-semester course in chemistry and recommended for students seeking careers in some allied health fields. *Prerequisite:* A working knowledge of algebra such as is acquired in two years of high school algebra, Mathematics 108, or a composite ACT score of 20 or above.

Chemistry 111-112. General Chemistry. (F,S)(3
A systematic study of the fundamentals and applications of the experimental and theoretical law of chemistry. Major topics include nomenclature, stoichiometry, chemical thermodynamics, equi librium, acid-base reactions, atomic and molecular theory and structure, chemical kinetics an nuclear chemistry. Examples and problems are drawn from all areas of chemistry. Concurren registration in General Chemistry Laboratory, Chemistry 131-132, is highly recommended for a students. *Prerequisite:* A working knowledge of algebra such as is acquired in two years of hig school algebra, or Mathematics 131 (which may be taken concurrently), or a composite ACT scor of 20.

Chemistry 131-132. General Chemistry Laboratory. (F,S)(1
Laboratory experiments in general chemistry that illustrate basic principles and develop laborator skills. Experiments are coordinated with the General Chemistry topics. Inorganic qualitative anal ysis is included in Chemistry 132. Three hours of laboratory per week. Concurrent registration o previous completion of Chemistry 111-112 is required. No credit may be received for Chemistr Laboratory 131-132 without the simultaneous or prior completion of the corresponding lectur courses Chemistry 111-112.

Chemistry 212. Analytical Chemistry. (F)(4
A study of important volumetric and gravimetric analyses presented from a modern theoretica standpoint. Also an introduction to the study of advanced methods of analysis including som newer instrumentation techniques. *Prerequisites:* Chemistry 112 and 132.

Chemistry 311-312. Organic Chemistry. (F,S)(4
A course in the chemistry of organic compounds. Unitized laboratory work is designed to illustrat the basic principles of organic chemistry. *Prerequisites:* Chemistry 112 and 132.

Chemistry 314. Physical Chemistry Laboratory. (S)(1
A laboratory course designed to accompany Chemistry 332 and Physics 331.

Chemistry 332. Physical Chemistry. (S)(3
A study of atomic structures and chemical bonding in terms of modern quantum theory. Topic include molecular spectra, and chemical kinetics. *Prerequisites:* Mathematics 242 and Physics 21 (Odd years only.)

Chemistry 411. Inorganic Chemistry. (S)(4
A systematic study of the structure, properties and reactions of non-carbon elements, with em phasis on the non-metals and the transition metals. Topics include atomic-molecular structure an bonding, physical methods of investigation, organometallic chemistry and bioinorganic chemistry *Prerequisite:* Chemistry 312. (Odd years only.)

Chemistry 421. Biochemistry. (S)(3
Study of chemistry, energetics and metabolism of biomolecules, such as, carbohydrates, protein lipids, nucleic acids, enzymes and vitamins with reference to living systems. *Prerequisite:* Chemistr 312. (Even years only).

COMPUTER SCIENCE

Requirements for a Minor: Twenty-one semester hours consisting of Mathematics 241, Compute Information Systems 121, 221, 250, 310, 315 and an additional Computer Information Systems cours numbered 200 or above. Course descriptions are listed under Computer Information Systems.

ENVIRONMENTAL STUDIES

Requirements for a Minor: Twenty-four hours, to be chosen by the student, the student's majo advisor, and an advisor from Environmental Studies. Courses are also listed under the variou departments to which they relate. The required core: Environmental Studies 101 and 313, Biolog 109 or 111, and Economics 251. The remainder of the courses are to be chosen from other Enviror mental Studies courses or the following recommended electives: Biology 321, 441; Geography 24 Philosophy 371; Sociology 311, 371, 421 and certain experimental courses.

Environmental Studies 101. Man and the Environment. (F)(3
A multi-disciplinary course in which basic ecological principles are developed and used to sho human impact on natural eco-systems. Topics include endangered species, impact of populatio growth, land use and the management problems, food production and demands.

nvironmental Studies 110. Physical Systems of the Environment. (S)(4)
A study of the physical environment as the home of man. Emphasis on distribution and interaction of environmental variables (weather, landforms, vegetation, soils, and climate). This course may be used to fulfill the physical science requirement for students seeking teacher certification. Laboratory activities included.

nvironmental Studies 313. Environmental Policy. (F)(3)
A study of the decision-making processes and the consequences of alternative courses of action on environmental quality. Analyzes the impact of public opinion, the various branches of government and pressure groups on environmental/energy policies at the federal and state levels. *Prerequisites:* Environmental Studies 101 and an introduction political science course, or permission of instructor. (Odd years only.)

nvironmental Studies 350. Our Geologic Environment. (S)(4)
Significance of regional and local geological features and processes in land use planning. Use of geological information to reduce conflicts in utilization of mineral and water resources and damage due to natural hazards. *Prerequisite:* Environmental Studies 110. (Odd years only.)

GENERAL SCIENCE

Neither a major nor a minor is offered.

eneral Science 124. Introduction to Physical Therapy. (S)(2)
A general orientation to the historical background, philosophy and professional ethics of physical therapy, interprofessional relationships between members of the health care team; concepts of health and disease; overview of the total medical spectrum, medical technology, modalities used in physical therapy, and orientation to clinical service departments and their administration.

eneral Science 471. Science Seminar. (S)(1)
A lecture/discussion of selected topics of interest, lead by faculty members of the Division of Natural Sciences, invited speakers, and student participants. May be repeated once; a student can earn a maximum of two credit hours through this course. All natural science majors must take this course at least once. *Prerequisite:* Natural science major with Junior or Senior standing, or permission of the instructor.

MATHEMATICS

Requirements for a Major: Thirty semester hours numbered 241 and above including Mathematics 241, 242, and two of the following courses: Mathematics 333, 402, 403. Computer Information Systems 121, Physics 211, 212, 213, and 214 are also required. Those seeking secondary certification must nclude Mathematics 301 and 333.

Requirements for a Minor: Twenty-one semester hours numbered 241 and above to include Mathmatics 241, 242, and Computer Information Systems 121.

Mathematics 100. Elements of Mathematics. (F,S)(3)
This course is intended for students who need to improve their arithmetic and elementary algebra skills to take other mathematics courses or courses requiring quantitative reasoning. The course includes a brief review of whole number arithmetic (particularly prime factorization, exponents, and perfect squares), an extensive review of fractions, decimals, ration and proportion, percent, and an introduction to algebra (including arithmetic integers, algebraic expression, and linear equations).

Mathematics 108. Intermediate Algebra. (F)(3)
This course is intended for students with a weak background in high school algebra who want to know more about the subject and/or plan to take Mathematics 131, College Algebra. The course includes a review of the real number system (particularly integers and irrational numbers), operations with polynomials, operations with algebraic fractions, simplification of radical expressions, solutions of equations and inequalities (linear quadratic, higher order, and simultaneous), and an introduction to graphs and functions. *Prerequisite:* Successful performance on entrance exam covering arithmetic and elementary algebra (given on first day of class).

Mathematics 110. Applications for Mathematics for College Students. (F,S)(3)
Mathematics with applications to business, biology, and social sciences. Linear functions and inequalities, geometry, number bases, probability statistics, and consumer mathematics. Emphasis on problem solving techniques.

Mathematics 131. College Algebra. **(F,S,Sum)(**
Brief review of intermediate algebra, including rational expressions, radicals, and exponents; sol ing equations,including quadratic equations; Applications; solving inequalities, including qua ratic inequalities; graphing equations; graphs of functions; combining functions and findir inverse functions; exponential and logarithmic functions; systems of equations.

Mathematics 132. Trigonometry. **(F)(**
Similar triangles; right triangle trigonometry, trigonometric functions of the general angle; La of Sines; Law of Cosines; Identities; Inverse trigonometric functions; Complex numbers; Compl exponentials.

Mathematics 203-204. Structure of the Number System. **(F,S)(**
Historical development of the numeration system from an intuitive to a logical approach base upon set theory, definitions of the basic operations on whole numbers and their properties e tended to integers, rationals, and irrationals; study of why and how of algorithms for all oper tions; topics in informal geometry.

Mathematics 241. Introduction to Calculus and Analytic Geometry. **(S)(**
Inequalities, the straight line, conic sections, limits, the derivative, differentiation of algebra functions, applications of the derivative, extrema, and the antiderivative. *Prerequisite:* Mathemati 132 or permission of instructor.

Mathematics 242. Intermediate Calculus and Analytic Geometry. **(F)(**
The integral, applications of the integral, logarithmic and exponential functions, trigonometr functions, hyperbolic functions, techniques of integration, L'Hospital's Rule and indeterminat forms, and improper integrals. *Prerequisite:* Mathematics 241.

Mathematics 243. Advanced Calculus and Analytic Geometry. **(S)(**
Topics selected from polar coordinates, vectors, solid analytic geometry, partial differentiatio multiple integration, infinite series, and differential equations. *Prerequisite:* Mathematics 242.

Mathematics 301. Principles of Geometry. **(S)(3**
Mathematical Proof: conjunctions, disjunction, implications, truth tables. Proofs using triangle polygons, and circles. Transformations, area, space geometry, and non-euclidean geometries. *Pr requisite:* Mathematics 132 or 204. (Even years only.)

Mathematics 331. Introduction to Linear Algebra. **(F)(3**
Vector algebra in Euclidean spaces, lines and planes in space, matrices and linear equation groups, and rings. *Prerequisites:* Math 131 and permission of the instructor. (Odd years only.)

Mathematics 332. Linear Algebra. **(S)(3**
Vector spaces, subspaces, linear independence, linear transformations, determinants, inner produc spaces, orthogonality, and unitary transformations. *Prerequisite:* Mathematics 331. (Odd years only

Mathematics 333. Modern Algebra. **(on demand)(3**
An introduction to abstract algebra including groups, subgroups, quotient groups, isomorphisr theorems, rings, and ideals. *Prerequisite:* Mathematics 241 or permission of the instructor.

Mathematics 372. Probability and Mathematics Statistics. **(F)(3**
Theoretical probability using point set approach, probability as a frequency ratio; probability fo finite sample spaces; conditional probability; joint and continuous distributions, binomial distri bution; Baye's theorem; statistical applications of probability; theory of sampling and variance *Prerequisites:* Mathematics 242, which may be taken concurrently, and permission of the instructo (Even years only.)

Mathematics 402. Functions of a Complex Variable. **(on demand)(3**
Complex numbers, analytic functions, elementary functions of a complex variable. Cauchy's for mula, Liouville's theorem, Laurent's series, residues, contour integration, conformal mapping physical applications. (Even years only.)

Mathematics 403. Introduction to Analysis. **(on demand)(3**
Sets and functions, topological ideas, LUB property, real sequences, continuity, mean value theo rems, integration, definite integrals, Taylor's theorems, improper integrals, convergence of infinit series, power series, improper integrals with parameter. (Even years only.)

Mathematics 471. Differential Equations. **(S)(3**
Differential equations of first order and first degree, differential equations of first order and highe degree, differential operators and linear differential equations, reduction of order. *Prerequisite* Mathematics 242. (Even years only.)

PHYSICS

Requirements for a Major: Physics 211, 212, 213, 214, 312, 331, 401, and 411 plus an additional ight hours of upper level physics courses. Chemistry 314 and 332 may be included. Required science ognates include Chemistry 111, 112, 131, and 132; Mathematics 241, 242, and 243; and General cience 471.

Requirements for a Minor: A minimum of twenty-one semester hours of Physics numbered 211 nd above, including Physics 211, 212, 213, 214, 401, and either 312 or 331.

Requirements for Secondary Certification: A teacher education student who selects a major in hysics is required to complete Biology 111 or 109 and 110 as well as Physics 105 or Environmental tudies 110. Those who select a minor in physics are required to complete one of the following: the rea of concentration in science; the area of concentration in mathematics-physical science; or a eaching major in either mathematics, biology, or chemistry.

hysics 105. Astronomy. (S)(4)
An introduction to the elements of astronomy. Constellation identification, telescope operation, solar features, life and death of stars, galaxies and cosmology. Experiments and activities will illustrate telescope use, star and constellation identification, analysis of data from photographs and spectrum charts, etc.

hysics 111-112. Elements of General Physics. (F,S)(3)
These courses are intended for life science and non-science students. They may be taken separately and in any order. Physics 111 topics include mechanics of motion; the properties of solids, liquids, and gases; and thermal phenomena. Physics 112 topics include wave motion and vibrations; electricity and magnetism; optics; and selected topics in modern physics. Does not count toward a minor. *Prerequisite:* High school algebra or permission of the instructor.

hysics 113-114. Elements of General Physics Laboratory. (F,S)(1)
Laboratory experiments accompanying Physics 111 and 112 respectively to illustrate basic principles and develop laboratory skills. No credit may be received for these laboratory courses without concurrent or prior completion of the corresponding lecture course.

hysics 211-212. General Physics. (F,S)(4)
Mechanics of solids, liquids and gases; laws of thermodynamics; kinetic-molecular theory, vibrating bodies; wave physics; laws of Coulomb, Faraday, Ampere, Ohm, Joule, and Lenz; electromagnetism; optics. *Pre- or Corequisite:* Mathematics 242.

hysics 213-214. General Physics Laboratory. (F,S)(1)
A general physics laboratory course involving experiments in mechanics, heat, sound, electricity, magnetism, and optics. Experiments are coordinated with Physics 211-212.

hysics 232. Basic Electronics Laboratory. (on demand)(3)
Theory and applications of solid state devices, power supplies, motors, transformers, A.C. and D.C. circuits and diagrams, circuit protections, control circuits. *Pre- or Corequisite:* Physics 112.

hysics 303. Relativity. (on demand)(3)
Einstein's Special Theory of Relativity, including relativistic kinematics and relativistic momentum and energy. *Prerequisites:* Mathematics 131 and 132.

hysics 310. Statics. (S)(3)
Study of force systems on bodies at rest. Applications of conditions of equilibrium to coplanar and space systems. Virtual work, centroids, moments of inertia, and products of inertia. *Prerequisite:* Physics 211. (Even years only.)

hysics 312. Electricity and Magnetism. (F)(4)
Electric charges, forces, field and potential with associated magnetic forces and fields; dielectric theory; capacitance, inductance, resonance, and oscillations; series and parallel DC and AC circuits; measuring instruments; Maxwell's equations and electromagnetic waves. Four lecture hours per week. Strongly recommend prior enrollment in Physics 232. *Prerequisites:* Physics 212 and Mathematics 243 and 471. (Odd years only.)

hysics 331. Heat and Thermodynamics. (F)(3)
Thermodynamic systems and processes, equations of state, PVT surfaces and real substances, laws of thermodynamics, energy equations, enthalpy, entropy, thermodynamic potentials, application of thermodynamics to simple systems. *Prerequisites:* Physics 212 and Mathematics 243. (Odd years only.)

Physics 401. Principles of Modern Physics. (F)(3
Elementary concepts of quantum mechanics, selected topics in atomic and nuclear physics. *Pr requisite:* Physics 212 and Mathematics 242. (Even years only.)

Physics 411. Classical Mechanics. (S)(3
Motion of a particle, systems of particles, rigid bodies; moving coordinate systems; Lagrange equations; small oscillations. *Prerequisite:* Mathematics 243. (Odd years only.)

Physics 420. Experimental Physics. (S)(2
An upper-level physics laboratory course focusing on fundamental physical constants. Include computer simulations. The class consists of one lecture hour and one laboratory hour. *Prerequisite:* Physics 211, 212, 213 and 214. (Even years only.)

SCIENCE EDUCATION MAJORS (SPECIALIZATION COMPONENT FOR CERTIFICATION)

Students who wish to teach secondary science may choose one of the following three programs (A) A Major (30 hours) in one of the sciences plus a certifiable minor in one of the other science or mathematics; (B) A mathematics-physical science area of certification; (C) A science area of con centration. Those seeking certification in the middle grades also have available an area of speciali zation in science.

All students seeking secondary certification in biology, chemistry or physics must take at leas sixteen semester hours in biology, chemistry, physics or environmental studies outside the majo requirements.

1. AREA OF CONCENTRATION IN MATHEMATICS-PHYSICAL SCIENCE

A total of 48 semester hours are required including:

		Semester Hour
CHEM 111-112	General Chemistry	6
CHEM 131-132	General Chemistry Laboratory	2
CHEM 212	Quantitative Analysis	
OR		
CHEM 411	Inorganic Chemistry	4
CHEM 311	Organic Chemistry	4
MATH 241-242	Calculus and Analytic Geometry	8
MATH 331	Introduction to Linear Algebra	3
	Mathematics elective	4
PHYS 211-212	General Physics	8
PHYS 213-214	General Physics Laboratory	2
	Physics electives	7
		48

At least 18 semester hours must be in courses numbered 300 or above. General Science 471 is highly recommended and may be counted in this 18 hour requirement. Students who choose this area are urged to exceed the minimum semester hour requirement and complete 21 semester hours in each of two of the three fields (chemistry, mathematics, and physics).

A major or additional minors may be taken in the area. A teacher with such preparation would be certified only to teach in the major or minor disciplines and all general interdisciplinary science courses at the secondary level.

AREA OF CONCENTRATION IN SCIENCE

A total of 48 semester hours are required including:

		Semester Hours
BIOL 111	General Biology	4
BIOL 232	General Zoology	
OR		
BIOL 330	Anatomy and Histology	4
BIOL 233	General Botany	
OR		
BIOL 321	Field Biology	3-4
CHEM 111-112	General Chemistry	6
CHEM 131	General Chemistry Laboratory	1
ENVS 110	Physical Systems of the Environment	4
ENVS 350	Man's Geologic Environment	4
GNSC 471	Science Seminar	1
PHYS 211-212	General Physics	8
PHYS 213	General Physics Laboratory	1
		36-37

Also included must be a minor in either biology, chemistry or physics. At least 18 semester hours must be in courses numbered 300 or above.

TEACHING MINORS

A teacher education student who selects a minor in biology, chemistry or physics is required to complete one of the following: the area of concentration in science; the area of concentration in mathematics-physical science; or a teaching major in either mathematics, biology, chemistry, or physics.

PRE-PROFESSIONAL PROGRAMS

Students who have career interests in medicine, dentistry, veterinary medicine, optometry, or ıedical technology may fulfill the admissions requirements of respective professional schools by ursuing a Bachelor's degree in biology or chemistry. Students may also arrange for transfer to a rofessional school after three years (ninety-six semester hours) at Union College. Upon completion f one year of study at the professional school, students will be awarded their Bachelor's degree :om Union College. (See section on Combined Degrees.)

Since admission requirements of professional schools vary considerably, all students having an ıterest in these fields are advised to select the professional school they wish to attend and choose ıre-professional courses accordingly. An academic advisor will be assigned who, working closely vith the student, will plan a program of study and assist with the admissions process into the ıofessional school of their choice. For details of specific programs, the following faculty members hould be consulted:

Dentistry — Chandler
Engineering — Carter, Pfeiffer
Medical Technology— Chandler
Medicine — Chandler
Optometry — Swanson
Pharmacy — Swanson, Weeks
Physical Therapy — Chandler
Veterinary Medicine — Chandler

PHYSICAL THERAPY

Union College provides a two year curriculum which allows students to complete courses required or entrance into the Physical Therapists Assistant (PTA) program at Jefferson Community College n Louisville or the Physical Therapy Program at the University of Kentucky in Lexington.

Union College and Jefferson Community College have entered into an agreement whereby stu- lents from southeastern Kentucky may work toward an Associate of Applied Science degree and ıualify to be a PTA. The student will take courses at Union College during the first two years and

complete the program at Jefferson Community College during the third year. Jefferson Communit College reserves two positions annually for qualified Union College students. To qualify for grac uation from this program, a student must also present a Red Cross First Aid Certificate earned withi the last four years. Students who enter this program will be asked to state in writing their intent t return to southeastern Kentucky to work as PTA's.

The Department of Physical Therapy at the University of Kentucky has approved Union's cours work for the two year Pre-Professional Phase of their program. Admission to the Professional Phas at the University of Kentucky is based on completion and is not guaranteed.

DEGREE IN MEDICAL TECHNOLOGY

Union College has cooperative agreements with University of Louisville and The Methodist Ho pital of Kentucky, Pikeville, in which the student attends Union College for three years and, upo acceptance, enters the cooperating institution and receives clinical training in medical technolog for twelve months. On satisfactory completion of the program the student is awarded a bachelor degree in medical technology and should be qualified for a national certifying examination.

COMBINED DEGREE IN ENGINEERING

A Cooperative "Three-Two Plan" has been worked out with the University of Kentucky in whic the student attends Union College for three years pursuing certain pre-engineering courses in ad dition to a solid program in liberal arts. At the end of the three years, upon the recommendation c Union College, the student enters the cooperating university or any accredited engineering scho as a junior and in two additional years completes all the requirements for the B.S. degree in Engi neering. Both the B.A. or B.S. from Union College and a B.S. in Engineering from the cooperatin university are awarded at the end of the fifth year.

DIVISION OF SOCIAL SCIENCES

James C. Raymondo, *Chairperson*
Appalachian Studies and Appalachian Semester
Anthropology — Behavioral Sciences — Criminal Justice — Geography
History — Political Science — Pre-Law — Psychology
Sociology — Area in Social Studies Education

ANTHROPOLOGY

nthropology 221. Introduction to Cultural Anthropology. **(on demand)(3)**
A survey of the archaeological and biological history of mankind as it relates to the development of man and his culture, with comparisons drawn between the cultures of primitive people and Western Civilizations.

nthropology 251. North American Indian Cultures. **(S)(3)**
The historical development of North American Indian technology, and the cross-cultural study of four diverse Indian cultures at the time of White contact, will be the main focus of this course. Economics, ecology, technology, role relations, medicine, politics and conflict will be the focus of study in each culture. (Even years only.)

BEHAVIORAL SCIENCES

The two departmental courses listed below are "core" courses in the Behavioral Sciences curriclum. Both courses are required as a part of the Psychology and Sociology majors or minors.

ehavioral Science 245. Basic Statistics: Theory and Application. **(F,S)(3)**
Basic concepts of descriptive and inferential statistics, illustrations of applications in the fields of sociology, psychology, business, education, and natural science. Students should demonstrate a proficiency in basic mathematics and algebra as determined by grades in Mathematics 100 or on a placement test.

ehavioral Science 341. Methods of Behavioral Science Research. **(S)(3)**
Techniques and philosophies of behavioral science research including experimental, quasiexperimental, survey, evaluation, field, and unobtrusive designs for the collection and interpretation of information.

ehavioral Science 495. Independent Study. **(on demand)(1-3)**

CRIMINAL JUSTICE

Requirements for a Major: Thirty semester hours of course work including the following: Criminal ustice 101, 201, and 301; Political Science 307 and 401; Sociology 363 and 464; and an additional ine semester hours chosen from the following: Criminal Justice 205 and 387, Psychology 202, 352, ociology 231, or certain experimental courses.

Requirements for a Minor: Twenty-one semester hours of course work including the following: riminal Justice 101, 201, and 301; Political Science 307; Sociology 363; and an additional six semester ours chosen from the following: Criminal Justice 205 and 387, Political Science 401, Psychology 202, 52, Sociology 231, 464, or certain experimental courses.

ssociate of Applied Science Degree in Criminal Justice

eneral Education Requirements

		Semester Hours
HSC 245	Basic Statistics: Theory and Application	3
NGL 111	Freshman Composition I	3
NGL 112	Freshman Composition and Literature	3
NGL 212	Western Literature	3
IST 111	World History to 1500	3
OR		
IST 112	World History since 1500	3
OR		
IST 201	United States History to 1865	3
OR		
IST 202	United State History since 1865	3
SYH 111	Introduction to Psychology	3
OCI 131	Introduction to Sociology	3
Jnion College Liberal Core Science Requirement (IV A., B., or C. with lab)		4
Jnion College Liberal Core Humanities Requirement (II B., C., or D.)		3
lective Hours		6
		34

Criminal Justice Requirements

		Semester Hou
CRJU 101	Introduction to Criminal Justice	3
CRJU 201	Criminal Procedure	3
CRJU 205	Introduction to Criminal Law	3
CRJU 301	Security Administration and Crime Prevention	3
Select at least six of the following courses:		
CRJU 387	Criminal Justice Practicum	3
PLSC 307	Criminal Justice Administration	3
PLSC 401	Public Policy and Criminal Justice	3
PSYH 202	Forensic Psychology	3
PSYH 352	Abnormal Psychology	3
SOCI 231	Juvenile Delinquency	3
SOCI 363	Sociology of Corrections	3
SOCI 464	Sociology of Deviance and Criminology	3
		30
	Total Associate Degree Hours	64

Criminal Justice 101. Introduction to Criminal Justice. **(F)(3**
An introduction to the criminal justice process including the areas of criminal justice administra tion, the police, the courts, and corrections.

Criminal Justice 201. Criminal Procedure. **(F)(3**
The law pertaining to the rights of defendants to criminal charges including: theories of respor sibility, exclamatory matters, criminal trial procedures, classifications of evidence, presumption relevance, expert testimony, testimonial privileges, hearsay, confessions, and impeachment.

Criminal Justice 205. Introduction to Criminal Law. **(S)(3**
An introduction to criminal law including the origins and principles of criminal law, crimina liability, and crimes against persons and property.

Criminal Justice 301. Security Administration and Crime Prevention. **(S)(3**
The study of the techniques and devices utilized by private industry, commercial and retail store and community agencies for providing on site security and crime prevention.

Criminal Justice 387. Criminal Justice Practicum. **(on demand)(3**
Criminal justice practicum consists of an eighty hour field placement in one of the areas of crimina justice: corrections, courts, or police.

Please see the relevant sections of the catalog under Political Science, Psychology, and Sociolog for a description of the remaining courses in the Criminal Justice degree programs.

GEOGRAPHY

Geography 101. Introduction to Geography. **(on demand)(3**
Emphasis on the concepts of place, region, spatial interaction, landscape interpretation and land scape evolution. Deals with the graphic media of geography — maps, graphs, scale models. Cas studies illustrate geographic principles to familiarize students with various parts of the world. Fo future teachers as well as students of the natural and social sciences.

Geography 241. Geography of Appalachia. **(F)(3**
A systematic analysis of the physical, demographic, economic and cultural characteristics of th Appalachian landscape, with comparative significance for other regions. Includes field study (Even years only.)

HISTORY

Requirements for a Major: Thirty semester hours of history including History 111, 112 and 300 At least 12 hours must be U. S. History and 12 hours must be non-U.S. History. Military Science 20 may be counted toward the U.S. history requirement. Humanities 320 may also be counted towar the history major or minor.

Requirements for a Minor: Twenty-one semester hours in history including History 111 and 112 At least 9 hours must be in U.S. History and 9 in non-U.S. History. Military Science 202 may b counted toward the U.S. history requirement.

istory 111. World History to 1500. (F,S)(3)
Survey of the institutions, culture, and thought of major world civilizations to 1500. The course will focus primarily on Western civilization, with some attention given to the development of China, India, the Americas, and Africa.

istory 112. World History since 1500. (F,S)(3)
Survey of world history during the period of European expansion and colonial domination.

istory 201. United States History to 1865. (F)(3)
A survey of American history through the Civil War, tracing the development of the American nation. Stress is placed on the nature of colonial society; the American Revolution; the creation of a national government; the influence of Jackson, and the Civil War.

istory 202. United States History since 1865. (S)(3)
A survey of American history to present times tracing the rise of America as a world power. Emphasis is on the changes of industrialization; the loss of civil rights; protest and reform; the Depression; and American influence in the world.

istory 233. History of Appalachia. (F)(3)
A survey of the region from settlement to the present time. The course focuses especially on the impact of the frontier experience, the Civil War and industrialization. "How is Appalachia both similar to and different from the rest of America?" is a major question addressed by the course. (Odd years only.)

istory 241. American Economic History. (F)(3)
Examination of the economic forces shaping the development of the American nation. Topical consideration of mercantilism; the rise of capitalism; slavery; the shocks of industrialization; the New Deal; and criticism of American economic power and capitalism. (Odd years only.)

istory 300. Historical Research and Methods. (S)(3)
Gathering and criticism of data; bibliographies and aids; problems in historiography, composition analysis, and the final monograph.

istory 311. United States Colonial and Revolutionary Eras (1600-1815). (F)(3)
An examination of the conflicting historical interpretations of these eras. Topics emphasized will be Puritanism; Colonial society; reasons for the Revolution; the meaning of the constitution; and the nation's early problems. (Even years only.)

istory 312. Jacksonian Era & the Civil War (1815-1865). (S)(3)
Emphasis on the conflicting historical interpretations of Jacksonian American and the Civil War. Topics include the Second Political Party System; slavery; expansion; and the causes of the Civil War. (Even years only.)

istory 313. Industrial America (1865-1919). (F)(3)
A consideration of the conflicting historical interpretations of the period. Topics emphasized include the loss of Civil Rights; the nature of the Gilded Age; Populist and Progressive Reforms; and World War I. (Odd years only.)

istory 323. Latin America. (S)(3)
Survey of Latin American history from the discoveries by Columbus to the present. (Odd years only.)

istory 342. History of Britain. (F)(3)
British history from the War of the Roses to the present. Emphasis will be on political and institutional development and the role of Britain in the world, including the rise and decline of the British Empire.

istory 345. American Constitutional History: Civil and Political Rights. (S)(3)
An examination of the influence of the Supreme Court with primary stress given to political and civil rights. Major consideration is the modern and Warren Supreme Court. (Even years only.)

istory 351. Europe to 1713. (F)(3)
History of Europe from 1350 to 1713. Course will cover the Renaissance, the Reformation, the counter-Reformation, the decline of feudalism, the rise of secularism, and the origin and development of the national state. Focus will be on changes in thought and belief. (Even years only.)

istory 352. Europe since 1713. (S)(3)
History of Europe from 1713 to the present. Course will cover the enlightenment, mercantilism, economic and imperial colonialism, domestic revolutions, the Napoleonic era, the industrial revolution, the Concert of Europe, major intellectual trends, and the world wars. Focus will be on political change. (Even years only.)

History 421. The Middle Period (1821-1850). (S)(
A detailed examination of Jackson, politics, and the culture of the period. Stress is placed c reform and the predominance of change in American life, and conflicting interpretations of tl period. (Odd years only.)

History 446. History of Russia. (Sum)(
Russian history since 1689. Survey of the political and social changes in Russia from the time Peter the Great to the present, including an extensive review of the origins and development the modern Soviet state. (Even years only.)

History 470. Twentieth Century America. (F)(
Selected topics on the nation's history since 1900, including the New Deal, Viet Nam, and Wate gate. (Even years only.)

History 495. Independent Study. (F,S,Sum)(1-

HISTORY AND POLITICAL SCIENCE

Requirements for a Major: Thirty-nine semester hours including at least twenty-one semeste hours of history, twelve semester hours of political science, and six additional elective hours.

Specific requirements include: History 111, 112, 201, 202, 300, at least one additional course i United States history, at least one additional course in non-United States history, and Political Scienc 101. Military Science 202 may count toward the United States history requirement. Humanities 32 may count toward the non-United States history requirement. An additional nine hours are require in political science. Environmental Studies 313 may count toward the political science requiremen Certain experimental courses may count toward the requirements for the United States history, nor United States history, and political science requirements. The remaining six hours of electives ma be chosen from any of the courses not used to meet a previous requirement toward the majo Teacher certification in the area of history and political science is available; students should consu with an academic advisor for more information.

POLITICAL SCIENCE

Requirements for a Minor: Twenty-one semester hours, including Behavioral Science 341 an Political Science 101. Environmental Studies 313 may count toward the minor.

Political Science 101. American National Government. (F)(3
A survey of the principal characteristics of the American National Government; examination o constitutional principles, federalism, political participation, institutions of government, and th politics of public policy.

Political Science 231. International Politics. (F)(3
Basic historical, economic, and cultural factors in the international political system. The rise an development of Western nation-state systems; the foundations of national power; sovereignty nationalism and imperialism; the development of international organizations and cooperation.

Political Science 305. American Political Parties and Politics. (F)(3
The organization, functions, and practices of political parties in the United States, their method of influencing public opinion, their role in nominations and elections, and their impact on popula government. (Odd years only.)

Political Science 307. Criminal Justice Administration. (S)(3
A study of the administrative principles and management practices of criminal justice organiza tions including: the police, courts, and correctional facilities. (Even years only.)

Political Science 308. The American Presidency. (F)(3
Analysis of the institution of the presidency, its functions, formal and informal relationships, an its limitations within the American political system. (Even years only.)

Political Science 401. Public Policy and Criminal Justice. (F)(3
The study of policy questions in the criminal justice system. Particular emphasis is placed on a detailed examination of the major policy issues that link crime, politics, administration, and the law.

Political Science 460. Political Philosophy. (S)(3
The chronological and thematic examination of perennial issues in political science including liberty, justice, equality, political obligation, and political authority as developed over time by the political philosophy of Greek and Latin philosophers, Medieval thinkers, and modern theorists representing various world-wide perspectives. (Odd years only.)

olitical Science 461. Administrative Management. (on demand)(3)
Methods of applying administrative principles to the operation of government agencies. Relevance of administrative theory to management procedures in government; the relation of policy formation and implementation to the administrative policy system environment.

PSYCHOLOGY

Requirements for a Major: Thirty semester hours, including Behavioral Sciences 245, 341, Psychology 111, 352, and 460.

Requirements for a Minor: Twenty-one semester hours including Behavioral Sciences 245, 341, and Psychology 111.

sychology 111. Introduction to Psychology. (F,S)(3)
Emphasis on the study of human behavior and the ability of the individual to make adjustments to his environment.

sychology 201. Psychology of Personal Adjustment. (S)(3)
Factors determining the development of personality, principles of mental health, and problems involved in the dynamics of human adjustment.

sychology 202. Forensic Psychology. (F)(3)
An application of psychological principles to the criminal justice system. Topics include: the relationship between the legal and mental health systems, the assessment of criminal responsibility, the psychodynamics of criminal behavior, and intervention strategies.

sychology 210. Child Development. (S)(3)
Emphasis on recent child development theories with laboratory experiences with children on a one-to-one basis.

sychology 330. Social Psychology. (F)(3)
Major emphasis is on problems involved in human relations. Designed to help the individual to understand and adjust to group thought and action. Attention is given to recent psychological and sociological research in human relations.

sychology 352. Abnormal Psychology. (S)(3)
Mental disorder, changing conceptions of normality, the more common forms of mental disorders, their psychological interpretation, principles of effective mental hygiene, and contemporary approaches to psychotherapy.

sychology 361. Psychology of Learning. (F)(3)
Basic concepts and principles of learning with emphasis upon human and animal laboratory studies.

sychology 402. Counseling Theories and Techniques. (S)(3)
Basic theories, types, and techniques of counseling. Practice in individual and group techniques of interviewing. Permission of the instructor required.

sychology 460. Theories of Personality. (F)(3)
Nature of personality structure and dynamics. Classical psychoanalysis, social psychological and stimulus-response theories included.

sychology 461. History and Systems of Psychology. (on demand)(3)
Origins of psychological thought within science and philosophy, tracing the development of systems and theories within German, British, and American psychology.

sychology 470. Theories of Learning. (S)(3)
Basic fundamentals of learning theory as formulated by such theorists as Thorndike, Pavlov, Guthrie, Skinner, and Hull. Attention is given to the empirical support of various theories.

sychology 495. Independent Study. (F,S,Sum)(1-3)

SOCIOLOGY

Requirements for a Major: Thirty semester hours, including Behavioral Sciences 245, 341, Sociology 131, 460. Psychology 330 is strongly recommended and will be credited toward the thirty semester hour requirement.

Requirements for a Minor: Twenty-one semester hours, including Behavioral Sciences 245, 341, Sociology 131. Psychology 330 is strongly recommended and will be credited toward the twenty-one semester hour requirement.

Appalachian Semester courses, Sociology 349 and 422, may count toward both the major and minor.

Sociology 131. Introduction to Sociology. **(F,S)(3**
The social interaction of persons and groups; man's cultural heritage and social nature; analysi and principles of group life; forms of collective behavior; the process of socialization; social struc ture, interaction and reorganization, including race relations and social class; a variety of soci institutions; the family, education, religion; the economy and politics; social change.

Sociology 231. Juvenile Delinquency. **(F)(3**
An introduction to the study of juvenile delinquency and the juvenile justice system. The cours investigates the topics of juvenile law, theories of causation procedural issues, and their interre lationships.

Sociology 241. Sociology of Appalachia. **(F,S)(3**
Uses the basic principles and concepts of sociology to study life in the Appalachian region. Th areas of study include socio-economic class, culture, folklore, social institutions, the family, religion schooling, poverty, and development.

Sociology 251. Current Socio-Economic Problems. **(F)(3**
Scientific understanding of social problems; problem areas in contemporary American society types of personal disorders and role impairment; the influences of social change on the structur of society. Attention is also given to the question of why certain forms of deviance become define as social problems.

Sociology 255. Selected Topics in Political Sociology. **(on demand)(3**
A series of seminars and small group discussions organized around a set of case readings in th area.

Sociology 271. Marriage and the Family. **(F,S)(3**
Background experiences in the lives of young people leading up to courtship and marriage; th establishment and functioning of the home, with related biological and social factors. Emphasis upon changing attitudes toward family relationships, some of the problems involved and suggested solutions.

Sociology 311. Human Ecology. **(S)(3)**
Population distribution, growth, composition, and its relevance to current economic, social, and political problems.

Sociology 353. Minority Groups. **(F)(3)**
A social scientific study of the origin and organization of minorities and their effect on society, with particular emphasis on minorities in the United States.

Sociology 363. Sociology of Corrections. **(S)(3)**
The study of the origins and organization of corrections in the United States. Topics include correctional ideologies, the social structure of various types of correctional facilities, probation, and parole.

Sociology 371. Social Institutions. **(on demand)(3)**
An examination of the structure and function of social institutions, with primary orientation within the American milieu. Particular emphasis on socialization, stratification, social change, and relations among institutions.

Sociology 372. Social Stratification and Inequality. **(S)(3)**
An analysis of the social stratification system including the concepts of class, status, prestige, income, and wealth; and, the impact of social stratification on American society. (Odd years only.)

Sociology 387. Field Practicum in Sociology. **(on demand)(3)**
The field practicum in sociology is designed to give social science majors practical experience in a professional field related to sociology. Field placements will include such diverse experiences as working in the county clerk's office, pre-trial services, social services and other programs. *Prerequisites:* Behavioral Science 245, and either Anthropology 221, Psychology 111 or Sociology 131, and permission of the instructor.

Sociology 421. Rural and Urban Sociology. **(F)(3)**
Comparative and interrelated study of urban and rural life considering physical, institutional, social and economic factors of modern life in cities and in the countryside. (Even years only.)

ociology 433. Social Change. **(on demand)(3)**
This course introduces students to the problems of development and change. Examples will be drawn from Third World models of development, nationalism, imperialism, environmentalism, and human rights. The course is interdisciplinary, with emphasis on historical, economic, environmental and sociological aspects.

ociology 460. Sociological Theory. **(F)(3)**
The major theories which have proved useful in investigating the nature of society are examined as cultural products, ideologies, and scientific models. Special attention is given to major figures such as Comte, Durkheim, Weber, Merton, C. Wright Mills, White and Sorokin in the emergence and convergence of their theoretical development. Lecture and discussion in a seminar setting.

ociology 464. Sociology of Deviance and Criminology. **(S)(3)**
This course will develop an understanding of the social definitions and implications of deviance. Various types of deviant behavior and relevant theories of society will be addressed.

ociology 470. Collective Behavior and Social Movements. **(Sum)(3)**
An analysis of the theoretical interpretations made by social and behavioral scientists of individual and collective behavior in crowds, demonstrations, disasters, social movements, riots, and political revolutions in Western Culture focusing on the United States from 1870 to the present.

ociology 495. Independent Study. **(on demand)(1-3)**

APPALACHIAN STUDIES

An interdisciplinary minor in Appalachian Studies is available to interested students. Courses nvolving the study of Appalachia may be found throughout this catalog.

Requirements for a Minor. Twenty-one semester hours chosen from the following: Behavioral ciences 341 or History 300; Environmental Studies 313 and 469; Geography 241; History 233; and ociology 241. Participation in the Appalachian Semester may also be counted toward a minor in ppalachian Studies.

APPALACHIAN SEMESTER

Deborah J. Thompson, *Coordinator*

The Appalachian Semester offers mature students a unique educational opportunity to devote heir full time to studying the Appalachian region — its strengths, its problems and its challenges. The program's objectives are to promote in-depth awareness and understanding of life in Appalachia rom an interdisciplinary area. This comprehensive academic program, which includes both classoom and field experience, provides 15 semester hours of credit in a variety of disciplines and offers he student the opportunity to become actively involved in a unique part of American society.

The following courses comprise the Appalachian Semester. Students must complete an application vith the Coordinator prior to enrollment in this program.

Sociology 287. Appalachian Field Practicum/Research. **(F,S)(6)**
Each Appalachian Semester student, in consultation with the program coordinator, will develop a specialized field experience. This course may be either experiential learning in a service or institutional setting, or directed study on a regional topic. Academic credit is available in English, history, sociology, anthropology, psychology, or social work, and in other disciplines on a negotiated basis as necessary and feasible.

Sociology 345. Appalachian Semester Orientation Seminar. **(F,S)(3)**
A multidisciplinary introduction, within the context of regional unity and diversity, to mountain society, folk culture, literature, music, religion, ethnic groups, geography and history.

Sociology 349. Political Economy of Appalachia. **(F,S)(3)**
An analysis of the political economy of the Appalachian Region, e.g., settlement patterns; subsistence and commercial agriculture; timber, coal, textiles, and tourism; land ownership and land use; the corporate sector; taxation; government programs and planning; and issues of external and internal power relationships.

Sociology 422. Social Institutions in Appalachia. **(F,S)(3)**
A theoretical and observational analysis of the cultural and social characteristics of the Appalachian Region. Special emphasis will be given to the contemporary Appalachian culture and to the interaction of mountain people with the broader forces of social change at work in modern America.

Sociology 487. Appalachian Field Practicum/Research. (F,S)(
Each Appalachian Semester student, in consultation with the program coordinator, will develo a specialized field experience. This course may be either experiential learning in a service c institutional setting, or directed study on a regional topic. Academic credit is available in Englisl history, sociology, anthropology, psychology, or social work, and in other disciplines on a negc tiated basis as necessary and feasible.

AREA IN SOCIAL STUDIES

An area of concentration in social studies consists of a minimum of forty-eight semester hours t include: a minimum of seven courses in history for a total of at least twenty-one semester hour with at least three courses in United States history, three courses in non-U.S. Western history, an one course in non-Western history. History courses numbered 381 and 481 are special topics course that may count toward either the U.S. history or the non-U.S. Western history requirement depend ing on course content.

The remaining twenty-seven semester hours credit may be selected from certain courses in th areas of anthropology, economics, geography, political science, psychology, and sociology. Socia studies subjects in which a student has completed nine or more semester hours shall be designate as concentration areas on the certificate.

Area concentrations are available in the fields of: economics, political science, psychology, an sociology. Students should consult with an advisor for all details and program requirements, an are responsible for meeting all social studies curriculum plan requirements.

PRE-LAW

Most law school admissions committees require a student to have a four-year college progran leading to the Bachelor of Arts or Bachelor of Science degree plus an acceptable score on the Law School Admissions Test. Regardless of the major, elective hours in accounting, business, history political science, philosophy, and English prove helpful. Students should consult with a pre-law advisor no later than the junior year.

CAMPUS INFORMATION

Location, Campus and Buildings

Union College is located in Barbourville, a residential town of 3,500, on U.S. highway 25E midway between Lexington, Kentucky, and Knoxville, Tennessee. The historic Wilderness Road runs along the eastern edge of the campus. Cumberland Gap National Historical Park is thirty miles away. The Doctor Thomas Walker State Shrine is four miles from the campus and in adjoining counties are Cumberland Falls State Park, Levi Jackson State Park, and Pine Mountain State Park.

On one of the most picturesque campuses of the South, Union College is proud of its Georgian buildings. Shaded by overhanging elms, the red brick buildings give the campus a majestic charm of dignity and beauty.

Speed Hall, (Administration Building), 1897-1905. A gift from the estate of Mrs. Fanny Speed of Louisville, KY. Her bequest also partially financed Centennial Hall and Stevenson Hall.

Centennial Hall, (formerly the Classroom Building), 1907.

Stevenson Hall, Men's Dormitory, 1907; wings added 1957.

Baldwin Place, the home of the President, 1925. The gift of Mr. and Mrs. F.E. Baldwin, Elmira, New York.

Data Processing Center/Post Office Building, (formerly Maintenance Building), 1938, originally equipped by a gift from the estate of Robert Norton, New Albany, Indiana.

Abigail E. Weeks Memorial Library, 1941, originally furnished by a gift from Mrs. Abbie E. Stewart. Expanded, 1987.

Pfeiffer Hall, Women's Dormitory, 1942; wing added 1960. The original wing was a gift from the estate of Mr. and Mrs. Henry Pfeiffer, of New York City.

Conway Boatman Chapel and Fine Arts Building, 1949.

College Courts, residences for married students, 1954; expanded in 1964.

College Park Drive, 1960, faculty residential area.

Langford Apartments, 1962. Gifts from the estates of Miss Mary Kyle Dugan and Mrs. Mary Gilbert Langford in memory of Mr. and Mrs. George Langford. Housing for faculty an staff.

Physical Education Building, 1964, includin the Swimming Pool, 1957.

Lakeside Hall, Men's Dormitory, 1964.

Frances Patridge Student Center, renovate 1991 (the original Student Center was built i 1964).

Mahlon Miller Science Center, 1973.

Religious Life Center, 1975.

Lakeside Center, houses the Division of Sc cial Sciences and Adult Basic Education.

Maintenance Building, 1990.

Soldiers and Sailors Memorial Intramura Center, (formerly Dramatic Arts Center), 1919 renovated 1990.

Myrtle Cole Minton Cafeteria, 1991.

Publications

Union College Bulletin — An official quarterly bulletin, one issue of which is the catalog number. The bulletin is sent free on request.

Parent's Bulletin — A publication to inform parents of activities on campus.

Union Express — A newspaper published by the journalism program.

Union College Alumnus — A bulletin published by the Alumni office.

Stespean — The yearbook, published annually by a college student staff.

Union and You — A publication that combines the official calendar and institutional policies. This is the student handbook.

Student Organizations

Students have the opportunity of participating in and developing leadership through a number of campus organizations. Some of these are departmental, some are limited to honor students in their fields, many are open to all interested students. Each has a faculty sponsor and some include faculty in their membership. The following are official clubs and organizations as approved by the faculty of Union College. Campus organizations must file each year for sanction to operate and new organizations must apply to be recognized and sanctioned. The Vice President for Student Life is the administrative contact for organizations and for

eir requests for funds from student activities onies.

Academic Team — An opportunity to par-ipate in a multi-campus quick-recall league.

Alpha Psi Omega — A national honorary eatre fraternity. Union's Zeta Chi chapter rves to encourage participation in the col-ge's theatrical activities and to develop larger d better informed theatre audiences.

Appalachian Wilderness Club — A group to plore the outdoors through hiking, camping, d caving.

Association for Cultural Enhancement — An ganization seeking to promote cooperation, llowship and solidarity among student roups with a special concern for the needs of inority students on the Union campus.

Baptist Student Union — An organization eking to provide Christian fellowship on and ff campus leading to commitment to Christ; eks to provide training for a life of christian rvice; seeks to provide spiritual support for ll students.

BLTN (Better Late Than Never) — An or-anization seeking to provide information, so-ial outlets, counseling, and emotional support r non-traditional students (those who have xperienced a gap between their secondary ed-cation and college or an interruption in their ollege careers).

Business Club — A business organization romoting scholastic achievement, service to he community, development of leadership po-ential, social interaction, and increased aware-ess of the business world.

Campus Activities Board — A student or-ganization to plan and manage the primary ampus activities calendar and its scheduled vents. The Associate Dean for Student Life erves as the primary advisor. The board seeks o provide support and encouragement to in-lividuals and organizations toward creating a road range of activities.

Chess Club — A club seeking to provide an tmosphere for intellectual challenge and com-petition.

Collegiate 4-H — This club seeks to promote, exercise, maintain, and increase interest in 4-H local through international levels. A service-oriented organization.

Commuter Council — An organization seek-ing to explore the needs, interests, and prob-lems facing non-residential students. The Commuter Council seeks to plan and manage activities and services for non-residential students. The Dean of Students serves as advisor to this council.

Dog Pound — An organization to encourage school spirit; increase campus participation in Union athletic events; and create a spirit of unity among students, faculty, administration and staff.

Environmental Organization — This organization serves to promote environmental awareness through informational services and non-violent direct action.

Fellowship of Christian Athletes — An organization that serves to present to students, athletes and coaches the challenge and adventure of receiving Christ and serving Him; seeks to promote athletic involvement and spiritual growth. Not limited to student-athletes.

Gamma Beta Phi — A national honor society promoting scholarship, leadership, and good citizenship at Union College.

International Student Association — An organization to provide an environment where students from different countries/cultures can exchange ideas/views and develop enjoyable friendships.

Intramural Council — An organization serving to plan and manage an active broad-based and competent program of intramural leisure sports activities for the women and men of the campus. The Intramural Director serves as coordinator and advisor to the Intramural Council.

Iota Sigma Nu — An honor society to provide recognition for honor students by uniting them in an organization which encourages high ideals, promotes diligence in study, and rewards excellence in scholarship.

Modern Culture Study Club — A group whose purpose is to study modern culture with an emphasis on the dramatic arts, through group discussions, films, readings, and lectures.

National Education Association—Student Program (NEA-SP) — A national pre-professional organization for men and women planning to pursue teaching as a career.

Newman Club — An organization seeking to provide fellowship for Christian students, particularly for Catholic students on campus.

Oxford Club — An organization to provide a fellowship of service and study for Christian

students of Union College, and to provide opportunities for those students to put their faith into action.

Patridge Student Center Board — A student and staff advisory board which serves to promote accessible, active, proportional, creative use of student union facilities. This is inclusive of the Intramural Center.

Pep Band — Provides opportunity for students and staff to play instruments in support of special campus events.

Phi Delta Kappa — An international professional fraternity for men and women in education.

Pizzazzers — Seeks to provide entertainment for college athletic and community events through dance team performances.

REFLECTIONS — A literary magazine providing encouragement and opportunity for expression of creative writing and publishing on the Union campus.

ROTC — A program which provides college trained officers for regular United States Army, Army Reserve, and Army National Guard.

Science Society — An organization to provide a forum for the discussion of scientific issues, to stimulate interest in the natural sciences.

Social Science Club — An organization to provide interest in the social sciences and to provide extra-curricular activities related to topics in the social sciences.

Stespean — Responsible for producing a college yearbook.

Student Government Association — Provides opportunities for students to experience campus government and to examine quality-of-life issues of the campus. Seeks to assure reasonable due process in campus living.

Union College Service Organization — An organization sponsored by Campus Ministry and supported by the Fellheimer Trust, which encourages and coordinates volunteer service on the campus and in the surrounding communities by students, faculty and staff.

Union College Singers — A vocal ensemble that performs in chapel, Christmas concert, spring concert, graduation, tours and festivals.

Union College Student Ambassadors — A student service organization whose purpose is to introduce new students and guests to cam pus life and its facilities. Activities include O entations, Parent's Weekend, Senior Da Homecoming and hosting special guests. Mem bers participate in an annual regional orient tion conference.

"Union Express" — Responsible for the re ular production of a campus newspaper.

United Methodist College Fellowship Serves to provide opportunities for stud prayer, fellowship and service with Unite Methodist sponsorship and support.

Athletics

Union College is a member of the Kentuck Intercollegiate Athletic Conference (KIAC), th Mid-South Football Conference (MSFC), th Kentucky Women's Intercollegiate Conferenc (KWIC), and the National Association of Inte collegiate Athletics (NAIA). The college pro motes athletics for physical development an as a vital part of the program of extra-curricula activities. The program emphasizes the protec tion of the best interests of the student athlete Union teams are noted for "clean" sport an competitive spirit. Sport for fun and characte building is fundamental. In intercollegiat competition for men, the College is repre sented by varsity teams in football, basketball soccer, swimming, tennis, track, and baseball.

Women may participate on an intercollegiat team in track, and have earned places on var sity teams in this sport in recent years. Separate women's teams are active in basketball, volleyball, swimming, tennis and softball and compete against women's teams from othe colleges and universities in the area.

In addition to the varsity sports competition for men and women, Union sponsors both a varsity cheerleading squad and dance team called the Pizzazzers. Both squads are made up of men and women and perform at home football and basketball contests.

Intramural Activities

The intramural program is directed by the Associate Dean for Student Life. Union College sponsors intramural activities in touch football, basketball, free-throwing, badminton, softball, tennis and volleyball to have a "sports for all" program. The intramural organization is, in general, made-up of men's and women's independent teams. The program includes both

am and individual sports. No college credit given for intramurals, but everyone is urged take part.

tudent Conduct

ıch student is expected to conduct himself at l times according to the rules of good society. nis obligation includes compliance with Fed-al, State and local laws and adherence to col-ge regulations. As members of a free society, udents are always free to peacefully and law-ılly petition for amendment or modification f the various laws as well as the college reg-lations. However, the rights of the student ody as a whole and the College as an insti-ıtion of higher education supersede the rights f any individual student or any group of stu-ents. Accordingly, not in an attempt to stifle issent, but rather to perpetuate an environ-ıent where the student may peacefully pursue is studies, actions which are disruptive to the ormal functions and operations of the College vill not be tolerated. Students who are disor-erly in conduct, or unmindful of the rights of thers, may be required to withdraw from the College.

No student shall possess or use alcoholic everages when on college property or when way from the campus representing the Col-ege in any way, i.e., as a participant or spec-ator at a College athletic event or other college unction. Any student violating this regulation nay be required to withdraw from the College.

Union College students are obliged to show liscretion, good judgment, and strong respect or Christian principle in all interpersonal re-ationships.

The sale, possession, or use of drugs or sub-stances in violation of the Federal, State, or lo-cal laws is prohibited. Any student who llegally sells, possesses, or uses such drugs will be subject to criminal prosecution by the ap-propriate law enforcement agencies and also may be suspended or expelled. It is the an-nounced policy of Union College to cooperate fully with the various law enforcement officials in the enforcement of the drug laws as with all other laws. A student's lawful use and posses-sion of certain drugs prescribed by a qualified medical practitioner such as a physician, den-tist, or optometrist is, of course, permitted.

Firearms and explosives of any kind are for-bidden in the residence halls or on the campus. Students may be expelled for failure to abide by this rule.

Gambling in any form is strictly forbidden.

The complete Student Conduct Code is printed in UNION AND YOU, the Student Handbook. The Dean of Students serves as the chief discipline officer for student conduct for the College.

Union College expects good housekeeping from all on-campus resident students. Resi-dents who fail to keep their rooms in satisfac-tory condition will have their housing contract revoked. The College reserves the right to en-ter and inspect the rooms of students at any time.

The academic conduct code is printed in UNION AND YOU, the Student Handbook. The Vice President for Academic Affairs is the chief academic discipline officer for the Col-lege. The Student Code defining procedures for dealing with academic dishonesty can be obtained in the office of the Vice President for Academic Affairs.

Social Life

Students are encouraged to accept every legit-imate opportunity to engage in social func-tions. The faculty emphasizes the value of well-directed social activities. Student organizations, the faculty, and local churches make desirable contributions to the promotion of social life. The Associate Dean for Student Life is respon-sible for the initiation and direction of a com-prehensive program of student social and recreational activities. All social functions are subject to the rules and regulations of the col-lege.

Automobiles

Automobiles parked on campus must be reg-istered in the Business Office. All must display a legible parking permit sticker. Stickers should be displayed in the rear window of the car on the driver's side or hanging from the rear view mirror. Cars should be parked in the assigned lots as designated by the Business Office. Vio-lation of parking regulations may result in ve-hicles being ticketed or towed away at owner's expense. Parking for the handicapped is pro-vided.

Health Service

Union College students may receive health service and advice from the Knox County Health Department in Barbourville. Since the College does not have facilities for taking care of protracted illness, arrangements for hospitalization must be made by the student or his/her parents. When a physician is needed, the student may request the residence hall staff to call one; the fee is paid by the student. In case of emergency, the College reserves the right to employ a physician or to have a student hospitalized without consent of the parents. All full-time students are encouraged to secure coverage for an accident, sickness, and hospitalization plan if adequate insurance is not available through a family plan at home. All claims under a student's insurance plan are to be filed by the student and the attending physician and not by Union College. An elective basic hospitalization and outpatient insurance plan is available; information can be obtained through the college. Interest groups in the State of Kentucky are currently in litigation over whether this should be required of all full time students.

The college does require that a student health service record be completed by a physician and placed on file with the College before beginning studies at Union. Recent measles outbreaks across the nation have resulted in our requiring that all incoming students have current MMR immunization.

Campus Housing

Stevenson Hall and Lakeside Hall for men and Pfeiffer Hall for women are primarily double-occupancy facilities. A limited number of single/private rooms are available; preference for these rooms is granted by request to those students having earned the greatest number of credit hours. Twenty apartments are available for married students. All residents of Stevenson Hall, Lakeside Hall, Pfeiffer Hall, and College Courts are required to sign housing contracts.

Students are expected to obey the terms of their housing contracts. A copy of this contract can be obtained in the office of the Dean of Students.

The residence halls are closed during vacation periods as specified in the academic calendar. Students will not be allowed to remain in the residence halls during vacations. Stu dents will be required to turn in their keys du ing these stated vacation periods. Anyon failing to do so will be charged a lost key fee

No student will be issued a room key, hal way, or outside door key unless he or she ha previously signed a housing contract. Key must be returned by the last day of the ter of this agreement or the student's use of th accommodations, whichever occurs first. An student failing to return a room key and/c apartment key will be charged a ten dolla ($10.00) fee. A twenty-five dollar ($25.00) fe will be charged for loss of hallway or outsid door key to cover the cost of changing the loc for the security of persons subsequently pe mitted the use of the accommodations.

All students twenty-one years or older, jun iors or seniors (according to the Registrar's Of fice records), veterans, and married student are eligible to live off campus. Juniors and sen iors under age twenty-one must submit writte parental permission.

Counseling Services

Union College takes seriously its responsibilit to provide for the diverse needs of its students For this reason, the college has established network of counseling services in the following areas: academic advising, career planning an placement, religious concerns, personal an psychological counseling.

All students are assigned an academic ad viser at the beginning of their tenure at Unio College. Faculty members serve in this capacit to assist students in selecting courses and com pleting academic requirements in a timel manner.

The Office of Career Planning and Place ment provides services that are designed t help define a student's career needs, objective and goals. Services offered may include: oc cupational advising, career interest testing, cre dentials/placement file service, job search skill seminars, graduate and professional school in formation.

Pastoral counseling services are provided by an ordained minister or a licensed pastoral counselor. The minister is available for individ ual and group sessions and is prepared to make referrals as needed to other professionals.

Personal counseling services are available to l currently enrolled students. A qualified psy- ıologist employed by Union College offers in- vidual counseling and therapy for emotional, terpersonal, family, or social concerns.

The Student Life Staff is one of the more sible groups of individuals in the student's ıily life. All staff members are prepared to as- st students with special problems that may ıise, and to connect them with the best avail- le source of help within the college com- unity.

Religious Life

nion College takes seriously its identity as a ıurch-related institution and is concerned ıat its students be made aware of the value of ith as well as academic excellence. We seek be faithful to John Wesley's affirmation that whole person is one who unites knowledge ith vital piety.

Students are given many opportunities to articipate in Chapel services, prayer groups, Bible studies, and other discussion groups. The Religious Life Center, in the heart of the campus, provides a setting for informal meetings. The Chaplain and other community clergy are available for pastoral counseling.

The Willson-Gross Lectures and the Staley Distinguished Christian Scholar Lectures seek to bring outstanding speakers to the campus. The Religious Life Committee, composed of students, faculty, and staff, works with the Chaplain as an advisory group to ensure that religious life programs are appropriate to the needs of the students and the campus community.

Students are encouraged to worship regularly in the church of their choice and to participate in the various religious groups on campus and in the community.

Students are also encouraged to participate in community and world service projects during the year, such as world hunger relief, improvement of the quality of life in the Appalachian area, and community recycling.

ACADEMIC CALENDAR 1992-93

Summer, 1992 - First Session

May 25, Monday	Residence halls open for new students at 1:00 p.m. Memorial Day Holiday.
May 26, Tuesday	Advising and Registration. Late fee after this date. Students may register for both summer sessions. First meal - Breakfast Classes begin on regular schedule.
May 28, Thursday	Last day for schedule changes. Last day to register for first summer session.
June 10, Wednesday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
June 22, Monday	Orientation and Advance Registration for fall semester for new students.
June 26, Friday	Final Examinations. Students not registering for second summer session must check out of residence halls by 6:00 p.m. Last meal - Supper
June 29, Monday	Final grades due by 12:00 noon.

Summer, 1992 - Second Session

June 28, Sunday	Residence halls open for new students at 1:00 p.m.
June 29, Monday	Advising and Registration. Late fee after this date. Classes begin on regular schedule. First meal - Breakfast
July 2, Thursday	Last day for schedule changes. Last day to register for second summer session.
July 11, Saturday	Orientation and Advance Registration for fall semester for new students.
July 15, Wednesday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
July 20, Monday	Orientation and Advance Registration for fall semester for new students.
July 31, Friday	Final Examinations. Last meal - Supper Residence halls close at 6:00 p.m.
August 3, Monday	Final grades due by 12:00 noon.

Fall Semester, 1992

August 5, Wednesday	Last day to finalize advance registration for fall semester.
August 20, Thursday	Meeting for new faculty members; 10:00 a.m.
August 21, Friday	Faculty Meeting/Orientation and Registration Information; 9:00 a.m. Division Meetings; 11:30 a.m.
August 22, Saturday	Residence halls open at 10:00 a.m. (Freshmen only) First meal — Lunch
August 24, Monday	ACT Residual - 8:00 a.m. Advising for upperclassmen and freshmen having completed Placement Tests Placement Tests — 12:30 p.m. Graduate Registration — 2:00-6:00 p.m.
August 25, Tuesday	Fall Orientation - 9:00 a.m. Registration for Fall Semester. Late fee after this date.
August 26, Wednesday	Classes begin.

ptember 3, Thursday	Fall Convocation (required attendance by all full-time students); 9:30 a.m. — Conway Boatman Chapel.
	Last day for schedule changes.
	Last day to register for fall semester.
	Last day to apply for December graduation.
ugust 31-September 4	Constitutes the first week for refund purposes.
ptember 7, Monday	Labor Day; no classes.
ctober 13 - 14	Mid-semester Examinations (classes meet on regular schedule).
ctober 15 - 16	No classes.
	Mid-semester grades due by 4:00 p.m. on October 15.
	Brunch and Supper only.
ctober 15 - 18	Mid-semester weekend; no classes.
	Residence halls remain open; food service available.
ctober 19, Monday	Classes resume.
ctober 19 - 23	Counseling sessions with advisors.
	Classes meet on regular schedule.
ctober 22, Thursday	College Convocation (required attendance by all full-time students); 9:30 a.m. - Conway Boatman Chapel.
ovember 11, Wednesday	Last day to elect credit/fail option.
	Last day to withdraw from a course with a grade of "W".
	Advising and Advance Registration for spring semester.
ovember 24, Tuesday	Last meal — Supper
ovember 25, Wednesday	Residence halls close at 10:00 a.m.
ovember 25 - 29	Thanksgiving vacation; no classes.
ovember 29, Sunday	Residence halls re-open at 1:00 p.m.
	First meal — Supper
ovember 30, Monday	Classes resume.
ecember 4, Friday	Last day to finalize advance registration for spring semester.
ecember 12, Saturday	Final Examinations for Saturday classes.
ecember 14, 15, & 16	Final Examinations.
ecember 17, Thursday	Residence halls close at 4:00 p.m.
	Last meal — Lunch.
ecember 18, Friday	Final grades for fall semester are due by 12:00 noon.

pring Semester, 1993

nuary 10, Sunday	Residence halls open at 11:00 a.m.
	First meal — Lunch
nuary 11, Monday	Academic Advising.
	Counseling and Orientation for new students.
	Placement tests for new students; 9:00 a.m.
	Graduate registration; 2:00-6:00 p.m.
nuary 12, Tuesday	Registration for spring semester.
	Late fee after this date.
nuary 13, Wednesday	Classes begin.
nuary 18, Monday	Martin Luther King Day; no classes.
nuary 18 - 22	Constitutes the first week for refund purposes.
nuary 21, Thursday	Last day for schedule changes.
	Last day to register for spring semester.
	Last day to apply for May-August graduation.
	Spring Convocation (required attendance by all full-time students); 9:30 a.m. — Conway Boatman Chapel.
arch 3 - 4	Mid-semester Examinations (classes meet on regular schedule).
arch 5, Friday	Mid-semester grades due by 4:00 p.m.
arch 11, Thursday	College Convocation (required attendance by all full-time students); 9:30 a.m. - Conway Boatman Chapel
arch 12, Friday	Spring vacation begins at 4:00 p.m.
	Residence halls close at 4:00 p.m.
	Last meal — Lunch
arch 21, Sunday	Residence halls re-open at 1:00 p.m.
	First meal — Supper
arch 22, Monday	Classes resume.

March 23 - 26	Counseling sessions with advisors. Classes meet on regular schedule.
March 25, Thursday	Assessment Day - Adjustment in class schedule.
March 31, Wednesday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
April 1, Thursday	Honors Convocation; 10:30 a.m. — Conway Boatman Chapel
April 8, Thursday	Advising and Advance Registration for May Interim, Summer Sessions and Fall Semester.
April 9 - 11	Easter vacation; no classes. Residence halls remain open; food service available. Brunch and Supper only.
April 12, Monday	Classes resume.
April 24, Saturday	Placement tests for new summer session students.
May 3, Monday	Last day to finalize advance registration for May Interim.
May 3, 4 & 5	Final Examinations.
May 6, Thursday	Students not involved with Commencement and not registering for May Interim must check out of residence halls by 4:00 p.m.
May 7, Friday	Final grades for spring semester are due by 12:00 noon. Baccalaureate; 7:30 p.m.
May 8, Saturday	Commencement; 10:00 a.m. Last meal — Brunch

May Interim, 1993

May 9, Sunday	Residence halls open for new students at 1:00 p.m.
May 10, Monday	First meal — Breakfast Registration for May Interim. Classes begin on regular schedule. Graduate registration; 2:00-6:00 p.m.
May 11, Tuesday	Last day to register for May Interim. Last day for schedule changes.
May 14 Friday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
May 24, Monday	Last day to finalize advance registration for first summer session.
May 28, Friday	Final Examinations. Students not registering for first summer session classes must check out of residence halls by 6:00 p.m. Last meal — Supper
June 1, Tuesday	Final grades due by 12:00 noon.

Summer, 1993- First Session

May 31, Monday	Residence halls open for new students at 1:00 p.m. Memorial Day Holiday; no classes.
June 1, Tuesday	Advising and Registration. Late fee after this date. Students may register for both summer sessions. Placement tests; 9:00 a.m. Classes begin on regular schedule. First meal — Breakfast
June 3, Thursday	Last day for schedule changes. Last day to register for first summer session.
June 16, Wednesday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
June 21, Monday	Orientation and Advance Registration for fall semester for new students.
July 2, Friday	Final Examinations. Students not registering for second summer session must check out of residence halls by 6:00 p.m. Last meal — Supper
July 5, Monday	Final grades due by 12:00 noon.

ımmer, 1993 - Second Session

ly 4, Sunday	Residence halls open for new students at 1:00 p.m.
ly 5, Monday	Advising and Registration.
	Late fee after this date.
	Classes begin on regular schedule.
	First meal — Breakfast
ly 8, Thursday	Last day for schedule changes.
	Last day to register for second summer session.
ly 10, Saturday	Orientation and Advance Registration for fall semester for new students.
ly 12, Monday	Orientation and Advance Registration for fall semester for new students.
ly 21, Wednesday	Last day to elect credit/fail option.
	Last day to withdraw from a course with a grade of "W".
ugust 6, Friday	Final Examinations.
	Last meal — Supper
	Residence halls close at 6:00 p.m.
ugust 9, Monday	Final grades due by 12:00 noon.

esidence halls will not close during the period from the end of Spring Semester through Summer Food service, however, will not be provided during the short periods between these terms.

ADMINISTRATION AND STAFF

JACK C. PHILLIPS, *President of the College* — A.B., Birmingham-Southern College; M.Div., Vanderbilt University; LL.D., Union College.

MAHLON A. MILLER, *President Emeritus* — B.S., University of Pittsburgh; M.Div., S.T.M., Drew Theological Seminary; Case Institute of Technology; Western Reserve University; Union Theological Seminary; Zurich University; Tuebingen University; D.D., Union College; L.L.D., Morehead State University.

Administrative Affairs

EDWARD H. BLACK, *Vice President for Internal Affairs; Affirmative Action Officer* — B.A., M.A., in Education, Union College.

GEORGE T. BLACK, *Director of Data Processing* — B.S., Union College.

MARCY WYATT, *Computer Programmer* — A.A.S., Bluefield College.

LOUISE MARTIN, *Computer Operator, Data Entry Supervisor* — LaCrosse State Teachers College; Union College.

BOB WARD, *Superintendent of Buildings and Grounds.*

Academic Affairs

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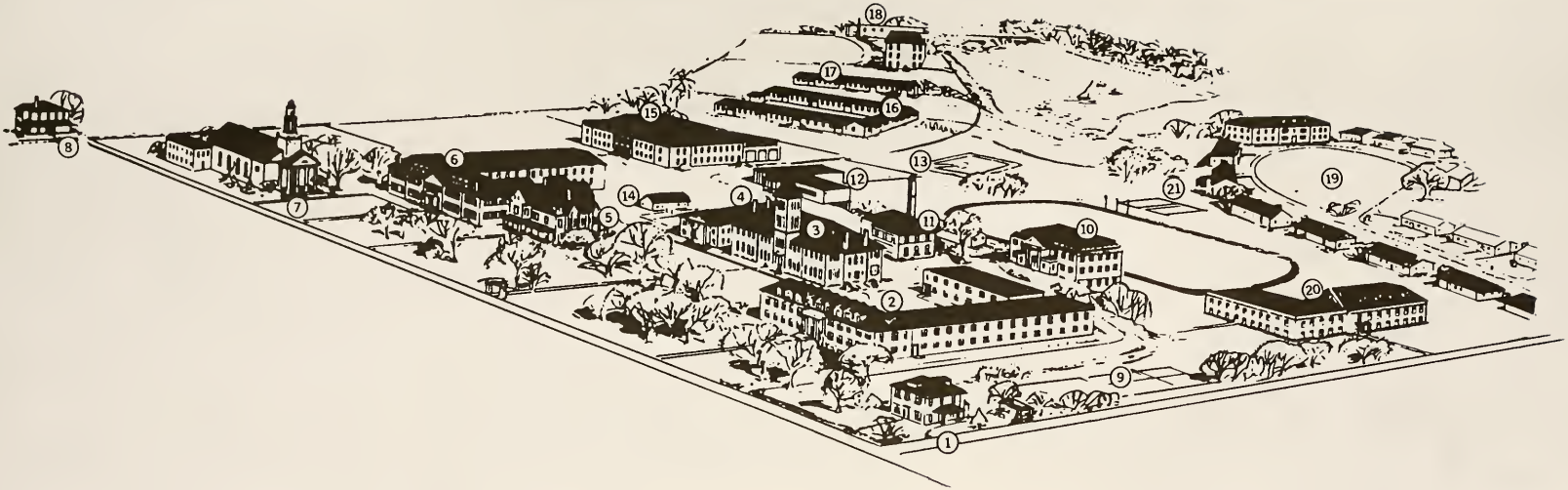

P. Parking
1. Baldwin Place, President's Residence
2. Stevenson Hall, Men's Residence Hall
3. Centennial Hall Historic Landmark, Classroom Building
4. Abigail E. Weeks Memorial Library & Annex
5. Speed Hall, Administration Building
6. Pfeiffer Hall, Women's Residence Hall
7. Conway Boatman Chapel
8. Fine Arts Building
9. Tennis Courts
10. Soldiers and Sailors Intramurial Center
11. Campus Post Office/Data Processing Center
12. Patridge Student Center & Minton Cafeteria
13. Colonel Harland Sanders Baseball Field
14. Religious Life Center
15. Physical Education Building, Gym, and Swimming Pool
16. College Courts, Married Students' Apts.
17. College Courts, Faculty and Staff Apts.
18. Lakeside Hall, Men's Residence Hall
19. Lakeside Social Sciences Center
20. College Park Drive, Faculty & Staff Residences
21. Mahlon Miller Science Center
22. Burch-Nau Football Field
23. Football Offices/Weight Training Facility
24. Maintenance Building & Shops
25. College and Community Recreation Park
26. Jack C. & Juanita Phillips Athletic Complex

Catalog Disclaimer Statement

While this catalog was prepared on the basis of the best information available at the time o publication, all information – including statements of fees, course offerings, admissions and gradu ation requirements – is subject to change without notice or obligation.

Full-time students continuously enrolled at Union College ordinarily may expect to graduate unde the requirements stipulated in the catalogue under which they entered. Students failing to enro for a period longer than two consecutive semesters will fall under the catalog in effect when the return to full-time status. Students may appeal to the Vice President for Academic Affairs for excep tions to this policy.

The statements in this catalog are for information only and do not constitute a contract betwee the student and Union College. **Failure to read this bulletin does not excuse the student from th requirements and regulations described herein.**

COLLEGE
310 College St.
Barbourville, KY 40906
(606) 546-4151

UNION

UNION COLLEGE

BARBOURVILLE, KENTUCKY

"Committed to Excellence"

CATALOG 1993-94

UNION COLLEGE CATALOG

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DIRECTORY FOR CORRESPONDENCE

Academic Program and Advisement ..... Vice President for Academic Affairs
Admissions Information ..... Dean of Admissions
Admission to Graduate Program..... Dean of Graduate Academic Affairs
Alumni Affairs.....Director of Alumni Affairs
Charges and Payment of Bills ..... Vice President for Business Affairs
Gifts and Bequests .....Vice President for College Relations and Development
Personal Welfare, Health of Students, Housing..... Vice President for Student Life and Dean of Students
Grants, Scholarships, Work-study and Loans..... Director of Financial Aid
Transcripts, Academic Records, Veterans Affairs..... Registrar

TELEPHONE COMMUNICATION

A campuswide network of telephones enables the caller to reach any administrative or staff office by dialing the central switchboard. After 11 p.m., emergency calls for students may be directed to their dormitory counselors.

Central Switchboard .....(606) 546-4151
Admissions Office.....1-800-489-8646
Counselor, Pfeiffer Hall.....(606) 546-3421
Counselor, Stevenson Hall .....(606) 546-3659
FAX number .....(606) 546-2215

DR. JACK C. PHILLIPS

UNION COLLEGE COMMITTED TO EXCELLENCE FOR A POSITIVE FUTURE

As we near the twenty-first century, it becomes more and more obvious that we are living in a world society and world market. From time to time we might wish to live in isolation, but it can no longer happen. We must prepare ourselves to be a part of the entire world.

Our anticipation for you as students at Union College is that you will receive an excellent education while here and one which will enable you to meet the challenges of tomorrow. Rest assured that the faculty, staff and this administration will do everything possible to assist our students in receiving the best possible education. For almost 120 years Union College has been in the business of offering academic excellence coupled with Christian integrity and principles. We stand on that premise today and unashamedly believe that it is the ingredient for building a successful man and woman to meet the needs of our world.

The Union tradition and pride is reflected in more than 8,000 graduates. We covet you to be a part of that tradition. The College is located on the historic Cumberland Gap Parkway in Southeastern Kentucky, just 17 miles from I-75. Union is the first College in the Kentucky mountains and has an enrollment of more than 1,000 students.

The College offers the Bachelor of Arts, the Bachelor of Science, the Bachelor of Music, and the Master of Arts in Education Degrees. It also offers a Rank I Program beyond the Master's level, as well as associate degree programs. Our faculty, with over 60 percent having the earned doctorate, give personal and individual attention to the students. Union College of Kentucky offers you the very best opportunity to receive an excellent education.

Sincerely,

Jack C. Phillips

Jack C. Phillips
President

A History of Service

Union College was founded in 1879 by a group of progressive citizens of Barbourville who formed a stock company and secured the main part of the present campus. In 1880, the first building was formally opened on the site of what is now known as Centennial Hall.

The College was purchased by the Kentucky Conference of the Methodist Episcopal Church in 1886, and Daniel Stevenson was made president of the reorganized institution. A major bequest from Mrs. Fanny Speed led to the construction of Speed Hall, Stevenson Hall, and the Classroom Building (now known as Centennial Hall).

The college department was discontinued in 1908, and for eight years the institution was maintained as a Junior College, an academy, and an elementary school. It became a *bona fide* college again in the presidency of Ezra T. Franklin, who inaugurated a program of development during which the Memorial Gymnasium and a home for the president were built. In 1927, the College was accredited by the University of Kentucky as a four-year college of A grade.

President John O. Gross emphasized the improvement of the curriculum and the building of a strong faculty. In 1931, Union was accredited by the University Senate of the Methodist Episcopal Church, and in 1932, full accreditation was realized when it was made a member of the Southern Association of Colleges and Schools. The Board of Regents of the University of the State of New York placed Union College on its accredited list in 1937.

In Conway Boatman's twenty-one years of leadership, the College achieved marked progress in both its educational programs and in plant improvement. Seven new buildings were completed and others were enlarged. The curriculum was expanded, endowment funds were increased, and a markedly improved program of faculty salaries and benefits was adopted.

Mahlon A. Miller was elected to the presidency in 1959. In 1960, a Master of Arts in Education degree program was introduced, and plant expansion continued with the development of College Park, a faculty residential area, followed by the construction of additional student housing, a physical education building, a student center, and a science center, completed in 1973.

President Jack Carter Phillips began his duties at Union College in January, 1983.

Dr. Phillips earned the Bachelor's Degree at Birmingham-Southern College and the Master of Divinity Degree at Vanderbilt University. He received an honorary Doctor of Laws Degree from Union College in 1981. He was lauded at that ceremony for "notable achievement in the field of institutional fund raising and, in particular, service to the colleges and universities related to the United Methodist Church."

A native of Scottsboro, Alabama, Dr. Phillips served in the U.S. Marine Corp from 1954 to 1957.

In recent years, the College has been involved in a $3 million building program. The following projects have been completed: a $2.1 million cafeteria/Student Center; renovation of the Soldiers and Sailors Memorial Intramural Center; creating of soccer, baseball, women's softball, and men's football fields; the building of a new organ for the Chapel; and the placing of telescopic seating in the gymnasium. There is now a commitment to build a $10 million endowment, $5 million for student aid and $5 million for faculty enrichment.

Under Dr. Phillips' leadership the College has experienced significant enrollment increases every year. A new 37,000 square foot library addition with computer facilities and a modern well equipped learning resource center opened in 1987.

The College has always accepted a special mission to Appalachia, a commitment which is now being strengthened with unique academic programs based on regional characteristics, expanded student financial aid, student community-service projects, and new career-oriented curricula.

The doors of Union College are open to all who aspire to a more fulfilling life, without regard to race, color, sex, disability, national or ethnic origin.

Interested and prospective students are encouraged to arrange a visit to the campus by calling the Admissions Office 1-800-489-8646.

E. CONTEXT

Understanding the modern world depends upon an adequate comprehension of the forces that continue to shape societies. There are many different interpretations of and explanations for the current world situation, and students are free—and encouraged—to develop their own opinions. During the college years, students have the opportunity to learn about the context of modern civilization—its antecedents and structure. By the completion of their undergraduate program, students should have:

1. increased their understanding of how the modern world works, including its peoples' increasing interdependence;
2. acquired a basic knowledge and appreciation of other cultures; and
3. developed an interest in, and comprehension of, current events and their history.

F. LEARNING SKILLS AND PERSONAL DEVELOPMENT

The development of learning skills and personal development are important goals of all programs at Union College. In addition, courses are offered which are specifically designed to develop learning skills where these are lacking, assisting students to "learn how learn". Students are also expected to becor familiar with ways in which the library su ports and complements a liberal arts educati and how libraries can serve them througho their lives. All students are offered the oppc tunity to use computers to assist their educ tional experience and to learn how tl computer can be useful to them personally.

Commitment to the goal of personal deve opment is evidenced at Union College by tl requirement that all students extensively e perience the liberal arts. Of special importan is Union's mission to serve the Appalachia people by making a liberal arts education avai able to the community. Students graduatir from such a program will have developed degree of confidence in their ability and wi be prepared to go on in life with the expect tion of success in a chosen endeavor. Appal chian students will also develop an increase appreciation of their own culture, place, an importance in the world.

A STATEMENT OF VALUES

Union College is dedicated to preparing students for living informed, socially useful, personally fulfilling, and spiritually vital lives. This commitment involves using knowledge within the context of Christian values. Although it is recognized that as an educational institution Union College has an obligation to help students understand other value systems and their effects when translated into specific areas of human activity, as a United Methodist church-related college Union affirms an institutional stance based on Christian values such as have evolved in the Judeo-Christian tradition and are contained in the Old and New Testaments. Our intent is both to confess and to practice the christian faith in all our endeavors.

IMPLICIT IN THIS STATEMENT OF VALUES IS THE REQUIREMENT THAT UNION COLLEGE COMMIT ITSELF TO THE VALUES ENUNCIATED BY ASSURING TO THE MAXIMUM EXTENT POSSIBLE:

To Its Students

(1) the fullest of opportunities to receive a quality liberal arts education.

(2) strong attention to, and genuine concern for, each individual in the college community, including emphasis upon the unique value of each person.

(3) a continuing concern that they learn to appreciate and accept life styles that reflect integrity, honesty, compassion, and social responsibility.

(4) a commitment to provide the experiences necessary to acquire a meaningful understanding of and dedication to Christian love and service to both God and neighbor.

To Its Faculty and Staff

(1) a campus atmosphere of responsible academic freedom dedicated to the constant search for truth.

(2) an academic community dedicated to openness and acceptance of its pluralistic composition, including personnel policies and practices that are recognized without regard to race, creed, sex, color, physical handicap, or national origin.

(3) a constant reminder of the power of Christian example.

To Its Alumni, Benefactors, and the Parents of Its Students

(1) faithful and responsible stewardship of all funds and gifts entrusted to the College.

(2) continuance of meaningful traditions, particularly those unique to a church-related institution, while at the same time encouraging the exploration and implementation of new value-centered activities especially of the type that have strong Christian relationship.

(3) continuing appreciation for the rich heritage of Union College as an independent, one-sectarian, church-related institution in the Christian tradition.

To The United Methodist Church

(1) acceptance of Jesus Christ as God's revelation of Himself, and of the Holy Spirit as God's continuing presence in life.

(2) acceptance of the moral standards which have evolved in the Judeo-Christian tradition as our ideals for living, working and witnessing in an academic community and as the standards for our teachings and personal example.

(3) sensitivity to and a conscientious effort directed toward the satisfaction of the spiritual needs and concerns of the college's students, faculty, and staff.

(4) meaningful responsiveness to and support for the United Methodist Church.

To Barbourville, Knox County, and the Appalachian Area

(1) continuing appreciation that Union College is an integral, social, educational, and spiritual part of the Barbourville and Knox County communities, and of Appalachia.

(2) dedication of the college's resources in teaching, research, and service to the enrichment of the communities of which Union College is a vital part.

(3) a commitment of the personal resources represented by the college's students, staff and faculty to local churches of the immediate and larger community.

ADMISSIONS AND GENERAL INFORMATION

ADMISSION REQUIREMENTS

The criteria for admission are used to identify those who are most likely to complete a college program of studies. The Admissions Office evaluates each applicant on an individual basis and acceptance decisions are determined on the quality of academic achievement; high school grade point average, class rank, and the scores of the ACT (American College Testing Program) or SAT (Scholastic Assessment Test of the College Board).

Applicants are required to submit an official transcript from an accredited secondary school, or a high school equivalency certificate based on the GED tests. The secondary school transcript should include four years of English, three years of mathematics, two years of social studies, and two years of science. The study of a foreign language is recommended.

Union College requires that an official transcript from each college or university attended be forwarded to the Admissions Office before an admission decision is made.

The College processes applications on a rolling admissions basis. An application is considered complete when all academic credentials including the secondary school and/or college transcript(s), and results of the ACT or SAT have been received.

Procedures For Admission

Application for Admission

The application for admission is available from the Admissions Office, Union College, Barbourville, KY 40906. A processing fee of $20.00 is required before an application will be considered for admission.

Enrollment Deposit

After official notification of acceptance to the Fall semester, all new students are required to submit a $50.00 enrollment deposit which is applied toward tuition. This deposit is refundable until August 1. If you are applying for financial aid your deadline is extended until you have been notified of your award. At the time of acceptance of your financial aid award you have two weeks to submit your enrollment deposit.

Secondary School Transcript

Applicants must authorize the release their (high school) transcript by signing the a plication form. The Admissions Office w write to the applicant's high school for an c ficial copy of the transcript.

Entrance Tests

All candidates are required to take the Ame ican College Test (ACT) or the Scholastic A sessment Test (SAT). Applicants should hav the results forwarded to Union College. Th Union College code number is 1552 for the AC and 1825 for the SAT.

A test application blank and bulletin of in formation may be obtained from the secondar school guidance office or from Union's Admi sions Office.

Summer Orientation

A one-day Summer Orientation program required for all students who are enterin Union College for the first time.

The program includes academic advisin registration, and financial aid counseling an is designed to help students make a successfu transition to the College.

Admissions Information for Other Programs

High School Junior Program

A student who has completed the junio year of high school may qualify for the Higl School Junior Program. The student must hav a "B" average and must take the ACT test give in February and/or April to be admitted to th program. The student may then enroll for hours or less in any one term for one-half th established summer tuition rate. This scholar ship terminates when the student graduate from high school.

GED Acceptance

An applicant may be admitted on a high school equivalency certificate based on the General Education Development Tests, provided that the scores earned are equal to or above the minimum recommended for college entrance by the American Council on Education.

dvanced Placement

Students who have successfully passed one r more of the Advanced Placement tests of the ollege Entrance Examination Board may ask or advanced placement and credit when they ubmit their application. The Office of the Reistrar will decide on the amount of credit to e granted and the college course that may be onsidered for equivalency. A score of 3 or igher is required for such action.

arly Start Senior Summer Program

A high-school graduate who has not atended college since graduation may be eligible or the Early Start Senior Summer Program. To ualify a student must meet admission standards required of all students, must graduate n the upper 50% of the class, and must have minimum ACT English score of 20 or SAT erbal of 420.

Accepted students who enroll for courses in ither summer session will be provided a scholrship for one-half of the tuition charges. If the tudent enrolls for and completes twelve hours luring the summer sessions, there will be no oom charge to live on campus. All students nust pay a $50.00 refundable room deposit.

Students who enroll in and complete twelve ours of college credit with a grade point average of 3.0 ("B" average) will receive a $250.00 cholarship as a full time student in the fall. If he 3.0 average is maintained in the fall, the tudent will receive another $250 scholarship n the spring. After the spring semester, the cholarship terminates.

Admission to Appalachian Semester

Sophomores, juniors, and seniors from colleges and universities as well as Union College students may apply for the Appalachian Semester Program. The priority deadline for applications is June 1 for the following fall semester; however, applications are received and reviewed until the available spaces have been filled. Early application is recommended for this program.

The application process includes a brief essay describing the student's interest and experience with the Appalachian Region; a nonrefundable application fee; and an official transcript from the college or university attended. The following critiera are used to evaluate candidates: caliber and diversity of the courses attempted; performance in those courses; cumulative grade point average; quality and content of the essay. Recommendations from an academic advisor are welcome.

Admission of Adult Students

Students 25 or older are not required to furnish ACT or SAT scores. Applicants who lack the high school diploma or GED are urged to contact Union's Adult Education office for assistance.

Admission of International Students

International students must complete the regular admission process. ACT or SAT is not required for admission but is required if a student is claiming scholarship eligibility. A nonrefundable application fee of $20.00 should accompany each application for admission to the College. After the student's credentials have been received and the student is accepted, an I-20 will be issued. The College must receive payment for the student's first semester costs for tuition, room and board, and fees before registration can take place and the student is allowed to move into the dormitory.

In order to be considered for admission, an international student must show English proficiency with a minimum score of 550 on the Test of English as a Foreign Language (TOEFL), or have completed level 109 from any English Language Services (ELS) center or have a score of 80 or above on the Michigan Placement Test.

When the admission process is completed, an international student is obligated to stay at Union for at least one year. No official transcript or recommendation will be released until the student fulfills the year's obligation. If a student leaves before one year, he/she will be reported to Immigration and Naturalization Services as being out of status. One year is interpreted as two full semesters, excluding summer sessions.

The student must pursue a full course of study. Those who drop to part-time status must by law be reported to the Immigration and Naturalization Service. No visas and/or passports will be renewed until the student's account is paid in full.

Transfer Policy

The transfer applicant is required to submit:

1. An application for admission.
2. An official, sealed transcript from each college/university previously attended.

3. An official high school transcript and ACT or SAT scores are required of all students transferring fewer than thirty-one semester hours. Students transferring more than thirty-two semester hours are exempt from the Placement Tests.

A transfer student applying to Union College must be in good standing with the previous college and be eligible to return to that school.

Union College will record a summary of transfer credits, indicating the total number of hours accepted and the quality point average at the sending institution. Union accepts only transfer work in courses with a grade of "C" or above. This policy applies only to credits transferred on a course-by-course basis, not to junior college students who transfer entire degree programs.

Sixty-seven semester hours is the maximu number of hours that will be accepted from two-year institution. Transfer students from four year school must satisfactorily complet thirty semester hours at Union College. For a associate degree, a transfer student must sa isfactorily complete eighteen semester hours a Union College.

Transfer credits will be accepted at the leve of the initiating institution. Therefore, a stu dent transferring from a two-year institutio must accumulate forty semester hours of uppe division credit while a student at Union Co lege before they are eligible for graduation. C that work, at least six semester hours must b included in any minor or in any twenty-fou hour major; twelve semester hours must be in cluded in any thirty hour major; and at leas eighteen semester hours of upper divisio course work must be included in any fifty-fou hour major or in an area of concentration.

FINANCIAL AID & FEES

TUITION AND FEES

College Expenses

The academic year is divided into two regular semesters, Fall and Spring. In addition, a special May Interim and two special summer sessions are offered, convening in the months of May, June and July respectively. Applicable tuition and fees are as follows.

Undergraduate Expenses (per regular semester)

Tuition (12 to 17 semester hours) and Activity Fee $3,500.00
Room and Board*
(19-meal week) $1,395.00
Private Room (Additional) ..... $ 105.00
Total for Boarding Student
—Regular Room $4,895.00
—Private Room $5,000.00
Part-time tuition for registering less than 12 or more than 17 semester hours, per semester hour ..... $ 160.00
(Undergraduate students over age of 50 pay 50% of the established tuition rate.)

Graduate Expenses

Full-time tuition (12 to 17 semester hours) $3,500.00
Part-time tuition
(per semester hour) ..... $ 160.00

Summer Session Expenses 1993

Tuition, Undergraduate
(per semester hour) ..... $ 160.00
Tuition, Graduate
(per semester hour) ..... $ 160.00
Room and Board (19 meals per week) each term, 5 weeks** ..... $ 435.00
Room and Board (Sunday dinner through Friday lunch — 15 meals per week) each term** ..... $ 355.00
Private Room, each term
(additional) ..... $ 25.00

May Interim Term Expenses 1994

Tuition, Undergraduate
(per semester hour) ..... $ 160.0
Tuition, Graduate
(per semester hour) ..... $ 160.0
Room and Board
(19 meals per week) ..... $ 260.0

Other Expenses

The fees listed below are not a part of th traditional tuition and board and roo charges.

Audit Fee
(per semester hour) $15.0
Late registration fee*** $15.0
CLEP (per test) $35.0
CLEP Credit Recording fee
(per course equivalent for Subject Tests only) $30.0
Portfolio Fee
(per semester hour) $30.0
Contract Course
(per semester hour) $25.0
Examinations:
late final examination fee $15.0
credit by examination (Institutional)
(per credit hour) $25.0
Graduation Fees:
Degree or Certificate $20.0
Academic Regalia $25.0
Absentia $50.0
Late Fee ..... $ 5.0
Music Lessons:
Part-time and Special Students
(per semester hour) $80.0
Applied Music
(per semester hour) $65.0
Private Lesson (Continuing Education)
(per semester hour) ..... Varie
Transcript-after first copy
(one week's notice required) $3.0
Student Teaching Fee $100.0

Appalachian Semester Fee $100.00
Special Lab or Studio Course..... $25.00
College Court Rental, per month
(all utilities furnished)..... $160.00

*Vacation periods are not included in the above quotations. Dormitories and food service are closed during vacations and other periods as noted in the undergraduate calendar. The College reserves the right to entertain delegates to conventions and other related groups in the residence halls during vacation periods. Students will be notified in advance of such contemplated occasions and assurance given regarding the safeguarding of their personal property during such occupancy.

**All board charges are subject to change without notice, pending contract agreement with the food service.

***Late registration fee can be waived by the Registrar for sufficient reason if permission is requested in advance.

Expenses for May and Summer Sessions are effective June 1, 1993.

Tuition, fees and other expenses are subject to change. All changes will be announced in the class schedule or through the media.

PAYMENT POLICY

I. Financial Clearance

A student will be cleared for registration only if any previous balance has been paid. The new semester's account must then be paid in full, or a signed payment plan first installment completed. May and summer sessions must be paid in full at the date of registration — no payment plan is permitted for May or summer sessions.

Authorized financial aid will be credited to the student's account and a payment plan set up for the balance. In case the financial aid is anticipated but not yet authorized, the student must pay as a first installment one third of the total costs.

II. Finance Charge

A monthly finance charge of one and a half percent (18% APR) will be added to the unpaid balance on student accounts at noon on the last working day of each month.

III. Payment Plan

If the new semester's account cannot be paid before registration, a payment plan can be completed and a first installment paid down. The payment plan requires one-third payment on each of the following dates.

1. On or before fall semester or spring semester registration — one-third.

2. Due September 21 (fall semester) or January 21 (spring semester) — one-third.

3. Due October 21 (fall semester) or February 21 (spring semester).

These dates will allow students who participate in the payment plan to avoid all finance charges, if payments are paid on time. Finance charges will go on all Fall balances beginning the last working day of October, and all Spring balances beginning the last working day of February.

IV. Unpaid Accounts

Any student who owes a balance on his or her account after November 15th (fall) or March 15th (spring) may be subject to withdrawal procedures.

A student having any unpaid balance will not be cleared for the release of an official report of grades, a transcript of credits, or a diploma.

Should collection efforts become necessary to collect an unpaid balance, the student will be responsible for all costs of collection including collection agency and attorney fees.

REFUND INFORMATION

Since faculty contracts and other commitments are made by the College for the entire year in advance, the following refund schedule has been established in order that the College and the student may share the loss equitably when it is necessary for a student to withdraw or make a change in his or her program.

1. A student is considered to be enrolled until he or she completes drop/withdrawal procedures. Necessary forms must be obtained from the Office of the Registrar. All refunds will be based on the date these drop/withdrawal forms are completed and returned to the Office of the Registrar.

2. A full refund may be obtained for a class only if a student has not attended beyond the first session and completes drop/withdrawal procedures with the Office of the Registrar.

3. Any portion of board charges unused up to date of withdrawal will be refunded, except that a full week's board will be charged for any fraction of a week.

4. Tuition and room charges will be refunded on the following basis:

   Regular Semester — Twenty percent of the total for tuition and room will be charged the first week, 40% the second week, 60% the third week, 80% the fourth

week. No refund will be given after the fourth week. Any part of a week will be treated as a full week. Refund is based on the tuition charges less $1 class dues, $1 Student Government Association fee, $3 for I.D. card, and $35 activity fee.

May Interim and Summer Sessions — Withdrawal up to the end of the first week will permit a 50 percent refund. No refund will be made after the end of the first week. Any part of a week will be treated as a full week.

5. **Refund of Overpayment on Student Account** — If a student makes an overpayment on his or her account, a written request for refund must be submitted to the Business Office within one year after the end of the last academic term for which the student was enrolled.
6. **Room Reservation Deposit** — This deposit will be refunded if the request is made in writing not later than August 1 for the fall semester or 30 days before the opening of any other semester for which the contract is first effective. Studen once enrolled, must submit a written r quest to the Vice President for Stude Life and Dean of Students at least 30 da before the end of the term, for cancell tion of the contract. This deposit will l refunded within 60 days upon receipt written authorization by the Vice Pres dent for Student Life and Dean of St dents indicating that the depositor is r longer enrolled as a student at Union Co lege and that he or she has left the hou ing facility undamaged and does not ow other bills. The request for this author zation must be made within one year aft the end of the academic term for whic the student was enrolled.
7. **Enrollment Deposit** — $50.00 will be r funded upon receipt of written reque prior to August 1 for the fall semester o 30 days before the first day of class for an other academic session. Refund reques should be submitted to the Admission Office.

FINANCIAL ASSISTANCE

Student expenses. In planning to attend Union College a student should expect the following typical expenses for an academic year; tuition and general fees $7,000, room and board $2,790, books and supplies $500. In addition, allowance should be added to these figures for personal expenses, medical insurance, transportation, and extra charges for special courses (such as laboratory fees, etc.). The Office of Student Financial Aid will consider the total costs for attendance, including the items listed above, when making a financial aid commitment.

Purpose of financial aid program. In addition to its own scholarship funds, Union College participates in all federal programs including the Pell Grant program. Residents of Kentucky are also eligible to receive state tuition grants and loans. Information on Union College scholarships will be found on the following pages.

Students applying for financial aid are considered for all programs for which they are eligible. The amount of financial aid awarded is generally a combination of grant, loan, and employment, and is based on the financial need of the student. Need is determined by subtrac ing the resources of the student and the cor tribution of his or her parents from the tot student expenses. The parents' contribution estimated on the basis of the amount of the income and assets as well as a consideration o taxes, medical expenses, and other liabilities o the family. An independent, objective, natior ally recognized method of analysis develope by the College Scholarship Service is used t evaluate the family's financial circumstance All financial aid awards to students are deter mined by Union College's Office of Student Fi nancial Aid.

Procedures for applying for financial aid Students must apply for financial aid by sub mitting both the Free Application for Federa Student Aid (FAFSA) and the Financial Ai Form (FAF) to the College Scholarship Service Students applying by March 15 will have greater opportunity. However, financial ai will still be available after this date. The FAFS and the FAF are used to apply for the Pel Grant, the Kentucky Tuition Grant, the Sup plemental Educational Opportunity Gran

(SEOG), College Work-Study, Perkins Loan (formerly National Direct Student Loan) and any institutional funds. The FAFSA and the FAF may be obtained from a high-school guidance office or the Office of Student Financial Aid. Students should specify 1825 as the code number for Union College in the appropriate section of the FAF.

A Financial Aid Notification along with information about any aid offered will be sent from Union College to each student who applies.

Procedures for reapplying for financial aid. A student must reapply for financial aid each academic year. However, aid usually continues at the same level each year unless a student's resources or the expected contribution of their parents change. All enrolled students receiving aid automatically receive information about applying for renewal awards. Other enrolled students should request applications by February 15.

Students who fail to maintain a satisfactory level of achievement may not receive the following types of financial aid: Federal Pell Grants, Federal Supplemental Education Opportunity Grants (FSEOG), KHEAA State Grants, Union College Scholarships and Grants, Federal Work Study, Federal Perkins Loans, Federal Stafford Loans, Federal PLUS/SLS Loans, other aid involving federal or state sources and funds associated with Union College. A student whose academic performance falls below acceptable guidelines of the College may be placed on academic probation. A student can keep financial aid during the first semester on probation, however, if they continue on academic probation for a second consecutive semester, or fail to complete 50% of the credit hours enrolled they will not retain financial aid. Students are eligible to receive financial aid for a maximum of ten semesters.

A student will receive written notification if financial aid is to be withdrawn. Students who have financial aid withdrawn may appeal to the Admissions and Academic Standing Committee by submitting a letter stating why satisfactory progress was not maintained and any other reasons why aid should not be withdrawn.

Grants

Federal Pell Grant — A program providing direct grants from the federal government. The student receives an eligibility report (as a result of his or her Financial Aid Form application) which can be submitted to Union College for payment. It is expected that the maximum amount for the Pell Grant for 1993-94 will be $2,300.

Federal Supplemental Educational Opportunity Grant (FSEOG) — A program designed by the federal government to assist undergraduate students with exceptional financial need (with priority given to Pell Grant recipients). The grant is permitted to range up to $4,000 per year depending on need and availability of funds.

Kentucky Tuition Grants combined with the CAP Grant — provides grants to students who are residents of the Commonwealth of Kentucky and who demonstrate a need through the analysis of the Financial Aid Form application. The maximum award for 1993-94 will be $2,040.

Employment

Federal Work-Study Program —If a student still requires financial support to meet college costs after the federal and state grants are awarded, the student may be given the opportunity to earn an amount on an hourly basis in a campus department. This employment program is campus-based support from the federal government. Either undergraduate or graduate students can qualify if the Financial Aid Form results indicate a need.

Work-Grant — If a student cannot qualify for employment on the basis of financial need and the College needs the special skills of the student, the student can work for an amount of tuition waiver.

Coop Program with Tremco, Inc. — is available to a qualified sophomore, junior, or senior majoring in chemistry.

Loans

Federal Perkins Loan (formerly National Direct Student Loan) — Federal loan funds are made available to students who have financial need and who maintain satisfactory progress towards graduation. Repayment at a 5% interest rate begins nine months after graduation or withdrawal from school.

Federal Stafford Loan (formerly Guaranteed Student Loan) — This loan program exists in

Kentucky and other states as a way to borrow from private commercial lenders to finance college education on the undergraduate and graduate levels. Repayment at 8% interest begins 6 months after graduation or withdrawal for borrowers with loans disbursed prior to October 1, 1992. For first time borrowers with Stafford Loans disbursed after October 1, 1992, the interest rate will be variable, but not higher than 9 percent. Minimum payments are $50.00 a month. Eligibility depends upon at least half-time enrollment status, making satisfactory academic progress, and a reporting of family income by filing the FAFSA and FAF.

United Methodist Student Loan Fund — Students who are members of the United Methodist Church and maintain a "C" average may apply through Union College for a loan at 6% interest from the Board of Education of the United Methodist Church.

Charles M. and Mary D. Grant Loan Fund — The Charles M. and Mary D. Grant Foundation has provided an endowed loan fund for Appalachian students who demonstrate a real need and who are in good standing at the College.

Hensley Emergency Loan Fund — Mr. and Mrs. Burton F. Hensley of St. Cloud, Florida, have established a loan fund for single students at Union College who have emergency situations requiring small short-term loans.

The Rev. and Mrs. Erwin King Loan Fund — The Rev. and Mrs. Erwin King have established a loan fund to aid worthy ministerial students in the junior or senior year at Union College.

Guy H. Williams Loan Fund — Dr. Guy H. Williams of Cleveland, Ohio, has established a loan fund in memory of his wife, Anna Williams. The fund is available to worthy students who have spent two years at Union College and have a "C" average or better.

The Beverly P. and Mossie B. Wilson Loan Fund — This loan fund has been established by Dr. and Mrs. O. J. Wilson of Louisville, Kentucky, in memory of Dr. Wilson's mother and father. The loans shall be given to students majoring in English and repayment shall be in accordance with the guidelines of the College's loan fund. The income from this fund shall come from the Beverly P. and Mossie B. Wilson Trust Fund.

The Charles Henry and Glennora Rominger Krieger Student Loan Fund — This loan fund, established by the late Glennora R. Krieger of Ft. Thomas, Kentucky, provides loans to worthy and needy students from the Appalachian counties of Eastern Kentucky. The terms of the loan are the same as those of the United Methodist Student Loan Fund.

Other Loan Funds — Student loans are available from a number of funds not specifically designated for Union College students, but for which Union College students are eligible. Specific information may be obtained from the Office of Financial Aid.

Institutional Grants/Scholarships

United Methodist Church Grants-in-Aid — Union College will provide grants of $1,000 for full-time United Methodist students and will request the student's home church to consider matching the grant. If the student plans to go into the Methodist ministry or if the student is a dependent of a Methodist minister, then a $1,000 grant will be provided by the College. We encourage recipients to request matching funds from their local church.

The grants are for one year, renewable, and may be applied to any Union College charges (tuition, fees, room and board on campus). A student is eligible for only one of the above grants.

College Employee Scholarships — Full-time employees of Union College are eligible for tuition remission scholarships. Full-time employees hired after January 1, 1975, will not be eligible for tuition scholarships for spouse or children until they have been employed for six months unless they are under annual contract. The spouse and unmarried children of full-time employees hired after June 1, 1982 may receive a Union College Employee Dependent Scholarship equal to 50% of the tuition and charges, with no charges for auditing a course. Other fees are charged in full. Employee Dependent Scholarships will not be granted to children for graduate work. Application for a scholarship must be made through the Financial Aid Office prior to the registration date each term. The FAFSA and the FAF must be filed to determine eligibility for federal and state aid before an Employee Dependent Scholarship will be awarded. A tuition grant at

other colleges participating in the Tuition Exchange Program is also available to employees' unmarried dependent children.

Alumni Grants — Dependent children of Union graduates will receive a grant equal to 10% of their Union College charges. Resident students' grant will be based on tuition, room and board charges, commuting students' grant will be based on tuition only. Students must meet all admission requirements and must attend full time.

Assistantships

Senior Assistantships are available annually. Students must: be enrolled full time, have completed ninety-six hours with a 3.0 minimum grade point average overall and in their major. The duties of the Senior Assistants include occasional classroom lectures, research, remedial work with beginning students, assisting in laboratories, etc. The assistantships are not intended to cover clerical duties. The assistants are expected to spend up to eight hours per week on the work assigned with the awards ranging up to $1,000 per year. The awards are made by the Admissions and Academic Standing Committee. Candidates are to be recommended by the division chairperson by April 1.

Scholarships

Academic Scholarships for new, full-time freshmen are based upon academic achievement and the results of the ACT/SAT. A range of scholarships are available with the most prestigious award, the Union Scholar Award, being worth up to full tuition each year. These scholarships are renewable based upon a minimum grade point average for each scholarship category.

Valedictorians and Salutatorians are awarded $2,000 and $1,500 respectively and must achieve a score of 24 and 23 on the ACT or 1000 and 970 on the SAT. An official high school transcript with class rank and certified by the high school attended must be submitted. These scholarships are renewable each year by maintaining a 3.2 cumulative grade point average, or at two-thirds of the original amount for a 3.0 minimum average.

All institutional grants and scholarships are based on the availability of funds with priority being given to those individuals who apply before May 1 of each year.

A student receiving a Valedictorian or Salutatorian award will not be eligible for other academic scholarships.

Junior College Scholarships — for new, full-time students are available to graduates of junior colleges who have earned the A.S. degree with a grade point average (GPA) of at least 2.75 on a 4.0 scale. A range of scholarships from $1,000 to $2,000 are awarded based upon the cumulative GPA. These scholarships are renewable in the senior year if the student maintains the minimum grade point average for the award category.

Alumni Scholarships — The Alumni Association of Union College awards three scholarships of $1,000 annually. These scholarships are given on the basis of character, need, and evidence of future usefulness. They are open to all full-time undergraduate students with a minimum 2.8 GPA.

Dr. and Mrs. Edward S. Amis Endowed Scholarships — Dr. and Mrs. Edward S. Amis of Fayetteville, Arkansas, have endowed a scholarship fund at Union College. Dr. Amis received the Distinguished Alumni Award in 1985. The two $500 grants will be given annually to two full-time Christian-service students who excel in local church programs.

The Ashland First United Methodist Church Scholarship — The members of the First United Methodist Church of Ashland, Kentucky have endowed a scholarship for a "worthy student", preferably a member of this church. If no member-students are eligible, the scholarship may be awarded to any United Methodist student from Kentucky.

The George L. Bagby Scholarship/Loan Fund — The late Mr. George L. Bagby of Woodford County, Kentucky, established a student financial aid endowment totaling $405,000 including accumulated interest, and this supports both scholarships and loans for Kentucky students.

The William H. and Louella M. Ball Endowed Scholarshp — The yield from this endowment is to be used to underwrite scholarships for qualified needy students from Knox or Lawrence Counties, Kentucky. Should there not be any eligible students from these counties, then other areas will be given consideration. The scholarship has been established

by sons, William H. and Robert C., and other family members and friends.

Bank of Harlan Scholarships — A number of scholarships are given annually to qualified students from Harlan County by the Bank of Harlan. The grants are determined according to financial need and academic excellence.

Barbourville Kiwanis Scholarship — The Kiwanis Club of Barbourville, Kentucky, has supplemented an educational fund originated by Mr. C. F. Heidrick and established a scholarship fund at Union College for promising students from Knox County, Kentucky. The scholarship is for $700.

Barbourville United Methodist Church Music Scholarships — Annually the First United Methodist Church of Barbourville, Kentucky, awards four scholarships of $200 (for a total of $800) to music students. Consideration is given for participation in the music program of the local church.

Bell County Scholarship — A friend of Union College from Bell County, Kentucky, has established a scholarship endowment with the income to be awarded annually to a Bell County student. This grant will be approximately $350 per semester.

Bryon B. Berry Appalachian Scholarship Endowment — Byron B. Berry, a 1935 alumnus, has established a $10,000 Appalachian Scholarship Endowment for a student majoring in English with journalism as a career option. Preference is to be given to, but not limited to, a student from Lawrence County, Kentucky. Otherwise the grant is open to any student from Appalachia.

Henry C. Black Memorial Scholarship — This scholarship of $250 a semester is given as a memorial to Mr. Henry C. Black, a graduate of Union College, to a freshman graduating from high school in Kentucky or Tennessee.

John A. and Hannah P. Black Memorial Scholarships for Christian Workers — The late Dr. and Mrs. Henry C. Black, of Johnson City, Tennessee, endowed a scholarship that provides an annual grant of $500 a semester for a promising student who plans a life of service in the United Methodist Church.

Dr. and Mrs. James F. Blair Scholarships — Dr. and Mrs. James F. Blair of Barbourville, Kentucky, have endowed two $600 scholarships for students from Knox County, Kentucky. They are awarded annually to students in the sophomore, junior or senior year.

The Thelma Morehead Blair and Robert A Blair Endowed Scholarship — Their daughter and son-in-law, Jeanette Blair Ladenburger (a Union College trustee) and John L. Ladenburger established a scholarship endowment in memory of Mr. and Mrs. Robert A. Blair. The earnings are to provide scholarships for Southeastern Kentucky students. Both Mr. and Mrs. Blair were graduates of Union College.

The R.L. Brown Family Endowment Scholarship — Mr. R.L. Brown, Jr., a Union College trustee from Corbin, Kentucky, has established an endowed scholarship for needy students. The late Mr. and Mrs. R.L. Brown, Sr. were graduates of Union College.

The Annette and Berry Burnaw Scholarship Endowment — Given by James Burnaw, an alumnus and Union College trustee, in honor of his parents. The yield is designated for a student from Nicholas County, Kentucky. Should there be no qualified student from this area during a given year, the scholarship will be given to some other Kentucky student.

The Eulalia Serrano Cabrero Memorial Scholarship — Miss Carmen Cabrero, '64, Jacksonville, Florida, has established a scholarship in memory of Eulalia Serrano Cabrero, a 1964 graduate of Union College. The $300 scholarship is available to a needy student of a minority background interested in a service profession.

Dr. and Mrs. Carlo B. Cawood Memorial Scholarship — The late Dr. and Mrs. Carlo B. Cawood of Harlan, Kentucky, endowed a scholarship to be awarded to a Harlan County student, with preference being given to a student from the Harlan United Methodist Church. The scholarship may be renewed. The grant is $800 per year.

Mamie D. Chambers Endowment Fund — The late Mamie D. Chambers of Maysville, Kentucky, established an endowment fund, the income from which is used to help support grants to needy and deserving students.

The Class of 1964 Scholarship — The alumni of the class of 1964 have established a student financial aid endowment totaling in excess of $5,000 including accumulated interest. The interest is to be used to promote geographical diversity in the full-time resident student body. A scholarship is to be awarded annually to a needy candidate from an under represented geographical area.

The Mary Clement Memorial Scholarship — Earl Clement, son of Mrs. Clement, has established a student financial aid endowment totaling $5,000 including accumulated interest, in her memory. The interest is to be used to fund a scholarship. The scholarship is to be awarded annually to a needy candidate from the state of New Jersey. Mrs. Clement, a resident of New Jersey for over eighty years, had a great love for education. Another son, Robert, is a graduate of Union College and served as Dean of Students from 1968-1975.

The Dr. Emerson G. and Edith Cobb Chemistry Endowment Fund — Dr. and Mrs. Emerson G. Cobb of Burson, California, have established an endowment for the support of a scholarship for the College's Chemistry Department. Dr. Cobb, a 1928 graduate of Union College, headed Union's chemistry program and later became head of the Department of Chemistry at the University of the Pacific, Stockton, California. Mrs. Cobb, the former Edith K. Cheap, is a 1929 Union graduate.

The Robert H. Cole Memorial Scholarship — Mrs. Monica M. Cole established this in memory of her late husband Robert H. Cole, a native of Barbourville and former student at Union College. During his lifetime and since his death, the late Mr. Cole and Mrs. Cole have been major donors to the College, having given more than $75,000 for operation and building needs in memory of Mr. Cole's parents, Mr. and Mrs. L.M. Cole, long-term residents of Barbourville. Mr. Cole built a chain of 35 drugstores in Tennessee and neighboring states. He also established the Robert H. Cole Microvascular Surgery Laboratory at the University of Tennessee. The scholarship is limited to students from Kentucky and Tennessee.

The Reverend Howard and Kathryn Coop Scholarship — Established in honor of the Coops by friends in churches where they have served, the Coop Scholarship is designated for Methodist students with preference being given to Kentucky Methodists.

The Davies Memorial Scholarship — The family and friends of Miss Ellen Davies and the late Dr. T. R. Davies have endowed a $1,600 scholarship to be awarded annually to a freshman or to an upperclassman with a "B" standing from Bell, Clay, Harlan, Knox, Laurel or Whitley County.

The Doan-Woody Scholarship — Oatis Doan of Harlan, Kentucky, has endowed a scholarship that provides an annual grant to a southeastern Kentucky student who has a 3.25 grade-point average. The grant, a memorial to Oatis Doan, Sr., is in honor of Mary H. Doan and Dr. Lester G. Woody, and may be renewed if the student maintains an overall grade-point average of 3.00 or better. Dr. Woody was Professor Emeritus of English at Union College.

Dr. Robert M. Drew Endowment Fund — The Commission of Missions of the Hyde Park Community United Methodist Church, of Cincinnati, Ohio, has established an endowment fund in honor of the Rev. Dr. Robert E. Drew. This fund will be used for scholarship grants to foreign students.

Dr. Franklin Duncombe Memorial Fund — Mrs. Helen Duncombe of Haverford, Pennsylvania, has established an endowment fund in memory of her late husband. Income will be used to finance grants-in-aid for students planning to enter the United Methodist ministry.

Alfred I. DuPont Scholarship Fund — The late Mrs. Alfred I. DuPont of Wilmington, Delaware, established scholarships for needy students having high academic potential. Preference is given to students from the Appalachian counties of Kentucky and Appalachian regions in adjoining states. This amounts to $5,000 annually.

Sam Coone Early Endowment Scholarship — The family of Sam Coone Early has endowed a scholarship to be awarded annually to a needy student. Mr. Early was a student at Union College in the late 1920's.

E. Nettie Edinger Memorial Scholarship — The late Mr. Joseph Edinger endowed this scholarship in memory of his sister. The scholarship is awarded annually to a deserving and worthy student enrolled at Union College.

Dr. and Mrs. J. Edward Faulkner Memorial Scholarship — This $500 scholarship is awarded to a student who plans a life of service in the healing arts, with preference being given to a predental student.

John D. Feather Scholarships — The late John D. Feather of Corbin, Kentucky, a 1940 graduate of Union College, has endowed scholarships to Union College for students from Corbin High School. The trust fund will provide funds for this scholarship program.

The R.B. Fenley Scholarship — Mr. R.B. Fenley of Louisville, Kentucky, has endowed a scholarship for needy Kentucky youth who

show promise of future usefulness. Mr. Fenley is a former trustee of Union College.

The GAR Foundation Endowed Scholarships — The GAR Foundation has endowed scholarships for Appalachian students with priority being given to those from the Fifth Congressional District.

The President E. T. Franklin Endowed Scholarship — Mrs. Grace I. Franklin, widow of former Union College President E. T. Franklin, and the immediate family have established an endowed scholarship, the yield from which will be awarded to a student or students who maintain acceptable grades who are in financial need, and who plan to enter some form of Christian service.

W. Glover Giles Memorial Fund — The late Mr. W. Glover Giles of Louisville, Kentucky, a former trustee of Union College, established an endowment fund by gifts during his lifetime and by a bequest. Income is used to fund Honor Scholarships at Union College.

John O. and Harriet B. Gross Memorial Scholarship — Family and friends have endowed a scholarship. Dr. Gross was president of Union College during the years 1929-1938. The scholarship is awarded annually to a Kentucky senior student with preference being given to one from Northern Kentucky. The stipend and requirements are the same as for "United Methodist Scholarships."

Hugh and Joyce Haggard Memorial Scholarship — A scholarship fund memorializing Dr. Hugh E. and Joyce A. Haggard, and their children, Walter M. and Stephanie L., has been established by the parents and brother of Dr. Hugh E. Haggard. Income from the fund provides an annual scholarship for a full-time student at Union College. The $2,000 scholarship will be awarded to a worthy student on the basis of financial need.

The Hauser and Sanslow Scholarship — This scholarship was established by Elizabeth Hauser Sanslow in memory of her parents, Gus A. and Mary H. Hauser, and her late husband, James H. Sanslow. Her father was a former Superintendent of Buildings and Grounds at Union College. The annual scholarship is available to students from the Appalachian tri-state area of Southwestern Virginia, Southeastern Kentucky, and Eastern Tennessee. Preference is given to students entering the field of education.

Dewey and Rachel B. Hendrix Memorial Endowment — Dwight M. Hendrix, an alumnus of Union College and his sister, Mrs. Mary Katherine Hendrix Brashear of Hyden, Leslie County, Kentucky, have established an endowment to memorialize their parents. The endowment is designated for financial aid, with the income to assist needy and qualified students enrolled full-time. Students who are residents of Leslie County, Kentucky, are given preference. Should no one qualify, then the grants are to be given to students from the Appalachian Region of Kentucky.

Walter S. and Ida Cole Hudson Scholarship Fund — The late Ida Cole Hudson of Barbourville, an alumna of Union College, endowed, through a bequest, a fund to provide scholarships in memory of her son, John Randall Hudson, a first lieutenant in the Air Force and a casualty of World War II. The fund will provide scholarships for students from Knox County.

Irene Hughes Scholarship — Miss Irene Hughes (AB'37; MA '63), Barbourville, Kentucky, provides an annual scholarship of $250 for a freshman girl, a graduate of Knox Central High School, who has been a member of the High School Honors English Class and who exemplifies Christian principles of conduct. The scholarship will be awarded by the Alumni Scholarship Committee.

Dr. W. A. E. Johnson Memorial Scholarship — Mrs. W. A. E. Johnson of Lawrenceburg, Kentucky, and friends have endowed a scholarship in memory of her late husband, a Union graduate and long-time friend of the College. The scholarship is designated for preministerial or Christian-service students.

The Ollie Cole Jones Scholarship Endowment — Mrs. Ollie Cole Jones, a native of Barbourville and a 1913 Union College alumna, has established a scholarship endowment in memory of Mrs. Ida Cole Hudson's son, John Randall Hudson, a first lieutenant in the Air Force and a casualty of World War II. The fund will provide scholarships for Knox County students.

Professor and Mrs. Millard L. Jordan Scholarship — Professor and Mrs. Millard L. Jordan of Lakewood, Ohio, have established a scholarship fund at Union College to aid worthy Appalachian students.

Junior Study Club Scholarship — The Junior Study Club of Barbourville, Kentucky, provides a $200 scholarship to aid a worthy

student from Knox County, Kentucky. The scholarship is awarded to a girl who graduated from a high school in Knox County and who is a junior or senior at Union College.

Kentucky River Coal Corporation Scholarship — A scholarship endowment has been established by the Kentucky River Coal Corporation, Lexington, Kentucky, for needy students from Knott, Leslie, Letcher, and Perry Counties, Kentucky. Recipients must have a grade point average of at least 2.0 during their senior year in high school, or must have or maintain a grade point average of at least 2.5 at Union College.

The Kilgore Endowed Scholarship — "Sometimes all it takes for a person to get a good education is a little help on the first step." This scholarship shall be awarded to a person entering the freshman class and will engender equity between women and men. Recipients will be selected from Southeastern Kentucky, Eastern Tennessee, and/or Southwestern Virginia. The scholarship designation will be made by the Union College Scholarship Committee. The endowment has been founded by Dr. Shirley Kilgore Weber, a native of Corbin, Kentucky, and professor at Rutgers University for many years. The yield from this endowed scholarship is designated for the scholarship.

Jeffrey W. Kronk Memorial Scholarship — Mr. and Mrs. Walter F. Kronk of Huntsburg, Ohio, have endowed a scholarship for a needy, qualified student from Geuga, Lake, or Astabula Counties in Ohio, or from the Appalachian counties of southeastern Kentucky. The scholarship is in memory of their son, Jeffrey, who was enrolled at Union College from 1963 through 1967. Should there be no qualified student from these areas in any given year, the endowment income will be used to support the Lincoln-Civil War Collection at Union College.

Verna Noe Landrum Memorial Scholarship — Mr. John W. Landrum of Harrodsburg, Kentucky, has established a $500 annual scholarship at Union College in memory of his mother, Mrs. Verna Noe Landrum. The award is to go to a student from Harlan County.

W.B. Landrum Memorial Scholarship — Mr. John W. Landrum of Harrodsburg, Kentucky, provides annually a scholarship of $500 in memory of his father for a promising United Methodist ministerial student. The student benefited by this scholarship must exhibit outstanding personal attitudes of religious sincerity, devotion, and earnestness in purpose.

Dorothy Lucas Memorial Fund — An endowment fund has been established in memory of Miss Dorothy Lucas, registrar of Union College for many years and beloved friend of students. The income from this fund is used to support various student-aid activities of the College.

The Magee Christian Education Foundation awards annually a scholarship for students entering Christian vocations or professions or to those of economic need who are of Christian commitment.

The Robert and Tilitha Meade Memorial Scholarship Fund — This fund has been endowed by Mrs. Nancy Meade Ford of Naples, Florida, for a student from Letcher County or from Eastern Kentucky. Mrs. Ford attended Union College and is a native of Letcher County, Kentucky. She was a public school teacher for many years.

Gayle Miles Scholarship — An endowed scholarship has been established by friends and former students of the late Gayle Miles for students from Barbourville High School. Miss Miles taught at both Barbourville Elementary and Union College.

John and Minnie B. McGaffee Trust Fund — Dr. and Mrs. O.J. Wilson of Louisville, Kentucky, have established the John and Minnie B. McGaffee Trust Fund for the purpose of providing financial assistance to worthy and needy preministerial students. The income may be used for grants or loans, with preference being given to students from the Appalachian Region of Kentucky.

Drs. Robert and Gertrude McGuire Endowed Scholarship — Drs. Robert and Gertrude McGuire, graduates of Union College, have established an endowed scholarship for a Union student having a financial need and maintaining a minimum of a B average. This scholarship amounts to $1,100 annually. Dr. Gertrude McGuire is a Union College trustee.

National United Methodist Scholarships — The Board of Education of the United Methodist Church makes available annually several United Methodist Scholarships of $500. The awards are made on the basis of character, need, and scholastic ability. Only students having at least a "B" average are eligible.

Mr. and Mrs. Hiram H. Owens Memorial Scholarship — Mrs. Sampson B. Knuckles (Jean) and the late Mrs. Buford T. Clark (Eleanor) have endowed a scholarship for a

Knox County student in memory of their parents, Mr. and Mrs. Hiram H. Owens. Mr. Owens was a well-known lawyer and Mrs. Owens (Georgia Black) was the daughter of James D. Black, a governor of Kentucky and a president of Union College. Mrs. Knuckles is a former Union College trustee.

The Frances L. Patridge Scholarship — Friends have endowed a scholarship in honor of Dr. Frances Patridge, a friend and employee of the College longer than any other faculty member, with over 40 years of service. Her last title was Vice President for Student Affairs. Dr. Patridge is currently Associate Professor Emeritus of Health and Physical Education. The yield will be placed in the general scholarship fund and designated for upper division students with a 2.5 or better grade point average.

Emory Evan Peter Memorial Endowment — The late Mrs. Laura P. Dickey of Louisville, Kentucky, established an endowment fund in memory of her brother, Emory Evan Peter. The income from this fund will be used to help finance the college student-aid program.

Donald Rankin Memorial Scholarship — Friends of Donald Rankin, a Union College student killed in Vietnam, have provided a scholarship that pays $350 annually to a young man from Kentucky. Basis for awarding the scholarship is need and the earnest desire for a college education.

Milton M. Ratner Foundation Scholarship and/or Student Loan Endowment — The Milton M. Ratner Foundation has established a scholarship and/or student loan endowment with the yield designated for needy, deserving Appalachian students.

The Dr. H. Warren Robbins Scholarship — Mrs. Ruth Ann Payne Hicks, a 1972 Union graduate and vice president of the Dual Machine and Tool Corporation of Indianapolis, Indiana, has established this scholarship. The yield from this fund is designated for students from Appalachia who desire to enter the teacher-education program and graduate as teachers. Dr. Robbins served Union College for thirty-five years and was Dean of Graduate Academic Affairs for fifteen years. He is presently Professor Emeritus of Education.

The Marvin Robbins Endowed Memorial Scholarship — An endowed scholarship has been established in memory of Mr. Marvin Robbins, a graduate of Union College. The applicant must be an upperclassman who is a Bell County High School graduate. The selection will be based upon academic achievement and financial need.

E.O. Robinson Mountain Fund Scholarship — The E.O. Robinson Mountain Fund has established an annual scholarship program to assist needy students who reside in the Appalachian Region of eastern Kentucky. Students receiving these scholarships should give promise of being able to complete their academic work successfully.

Sue P. Rosenbalm Scholarship — Mrs. Sue P. Rosenbalm of Ewing, Virginia, has established a scholarship to be awarded to a qualifying student from Lee County, Virginia. Mrs. Rosenbalm is a 1949 graduate of Union College.

Sanders Honor Scholarship — The late Colonel Harland Sanders of Shelbyville, Kentucky, provided a number of honor scholarships annually. Mrs. Claudia Sanders, his widow and former Union College trustee, continues to provide them. The Sanders Honor Scholarships are limited to students who do not use tobacco and alcoholic beverages.

The Dr. and Mrs. Phillip A. Sharp Endowed Scholarship — Dr. and Mrs. Phillip A. Sharp, both Union College graduates who now reside in Newton, Massachusetts, have established an endowed scholarship with the yield designated for needy, qualified students. Dr. Sharp is head of the Department of Biology at Massachusetts Institute of Technology in Cambridge, Massachusetts.

Sims Scholarship Fund — Reverend and Mrs. Harry C. Sims of West View, Kentucky, have established a scholarship fund at Union College to aid worthy students preparing for the United Methodist ministry.

The Catherine Faulkner Singer Memorial Scholarship — This $500 scholarship has been established by friends, alumni, and her daughter and son — Marcia and Donald — for the son or daughter of an alumnus of Union College. The honoree was Director of Alumni Affairs from 1961 to 1978.

Cawood Smith Harlan County Scholarship — Dr. Cawood Smith, Harlan County attorney, has established an endowment for scholarships to be awarded to the son or daughter of miners from Harlan County, Kentucky. The recipient shall be a resident of Harlan County and is to be selected upon the basis of need, scholarship, and promise of future usefulness in the coal region. This annual grant shall total $2,400.

Margaret Carter Stacy Scholarship Fund — Margaret Carter (Mrs. Cortis K.) Stacy of West Liberty, Kentucky, has endowed a scholarship fund for the support of students from Morgan County, Kentucky, or for Appalachian students. Mrs. Stacy is a strong United Methodist with interest in higher education for the youth of Appalachia.

Dr. and Mrs. Charles B. Stacy Memorial Scholarship Fund — A scholarship fund has been endowed in memory of Dr. and Mrs. Charles B. Stacy of Pineville, Kentucky, for students from southeastern Kentucky. A longtime friend of Union College, Dr. Stacy had an abiding interest in education of the Appalachian region.

Charles R. Steele Memorial Scholarship Fund — Martha Brittain Steele has established this scholarship as a memorial to her late husband, Charles R. Steele, a 1933 graduate of Union College. Preference is to be given to, but not limited to, a student from Mason County, Lewis County, or Harlan County. Otherwise the grant is open to any student from Appalachia.

The Steele-Reese Foundation Endowed Scholarships — The Steele-Reese Foundation of New York City has established a $100,000 endowment with the yield being designed for scholarships for qualified Appalachian students.

The Stevens Family Scholarship Fund — Dr. Erland P. Stevens, Chairman Emeritus of the Union College Board of Trustees of Ashland, Kentucky, and Mrs. Stevens have established a scholarship fund with 80 percent of the earnings being distributed annually as scholarship grants and with 20 percent of the yield being reinvested in the Stevens Family Scholarship Fund. The scholarships shall be a part of the College's general scholarship fund.

Lewis Ogden Stiles Endowment Fund — The late Mrs. Lewis Ogden Stiles of Waco, Texas, established this fund to memorialize her late husband, Lewis Ogden Stiles, and his first wife Pearl Long Stiles, both faithful United Methodists of Irvington, Kentucky. The income from this fund will be used to finance grants-in-aid under the college loan-grant program to United Methodist students planning to enter the ministry of the Kentucky or Louisville Annual Conference.

The Walter B. and Geraldine G. Sutton Memorial Scholarship — An annual scholarship will be given to a Knox County student attending Union College. The selection will be determined by the student's need, academic ability, and promise of future usefulness. The endowment is provided by two daughters: Carla Sutton Combs and Lynn Sutton Prichard.

Lytle and Dorothy Swope Scholarship — Dr. Samuel G. Swope of Louisville, Kentucky, a trustee of Union College, and F. William Swope of Elizabethtown, Kentucky, have established a scholarship endowment as a memorial to their parents. Funds for the endowment came from their parents' estate. Up to four scholarships are awarded annually with grants of $600 each. Preference is given to students born in Kentucky, Ohio, or Florida.

Hulbert Taft, Jr., Memorial Scholarship — Mrs. Thomas C. Haydock, Sr., of Cincinnati, Ohio, has provided a scholarship endowment as a memorial to her late husband, Hulbert Taft, Jr. The income from the endowment will be used annually to provide one or more honor scholarships to needy students having high academic potential.

The Dot Tatman Endowed Scholarships — Four $250 endowed scholarships have been established by the Reverend Dr. Harold W. Tatman, Jr., (a Union College trustee) in honor of his wife, Dot. The scholarships are to be given to freshmen and continue over the four-year period with preference to Kentucky female students.

The Teagle Foundation Appalachian Scholarships — The Teagle Foundation of New York City has established a number of scholarships for qualified Appalachian students. The foundation was established by Walter Clark Teagle, Rowena Lee Teagle, and Walter C. Teagle, Jr.

Edward Townsend Memorial Scholarship — The late Dr. Milton H. Townsend, former Vice President of Union College and Assistant to the President for External Affairs, endowed this scholarship with preference being given to a history and political science major. The grant is in memory of Dr. Townsend's late father.

The Milton H. Townsend Memorial Scholarship — This scholarship was established by Mrs. Betty Townsend, the family and friends of Dr. Milton H. Townsend. At the time of his death, Dr. Townsend had served Union College for 42 years in various capacities, the latest being that of vice president for the College and assistant to the president for external affairs. The scholarship will be awarded annually to a student(s) who has financial need. Preference

will be given to a history or political science major.

TREMCO, Inc., Scholarship — Scholarships amounting to $4,000 annually are awarded by TREMCO, INC., a division of B.F. Goodrich Company, to science or chemistry students with preference being given to students from southeastern Kentucky.

Allan Tuggle Scholarships — Allan Tuggle, M.D., of Charlotte, North Carolina, an alumnus of Union College, has established a number of scholarships in mathematics and physics.

Several of the scholarships are awarded to entering freshmen on the basis of competitive examination. Other scholarships are awarded to current students with majors or minors in mathematics or physics on the basis of academic achievement. Some of the scholarships may be in the form of work grants.

Union National Bank Scholarship — The Union National Bank of Barbourville, Kentucky, has established a half-tuition scholarship at Union College to aid worthy students from Knox County, Kentucky. It is awarded to a student graduating from a high school in Knox County, for the freshman year at Union College.

Vaughn and Melton Company Scholarship — This scholarship is given by Vaughn and Melton, Consulting Engineers of Middlesboro, Kentucky. This is an annual award of $500 for a student from southeast Kentucky whose high school and college scholastic record reflects the potential for making a major contribution to the quality of life of the region.

Harry C. Viall Memorial Scholarship — Mrs. Harry C. Viall of Barbourville, Kentucky, has endowed a memorial scholarship for a needy, qualified student with preference going to an individual from Knox County. The annual $1,300 scholarship is given in memory of her late husband, Harry, who was a prominent local businessman.

Mr. and Mrs. O. H. Viall Memorial Scholarships — The family of Mr. and Mrs. O. H. Viall of Barbourville, Kentucky, has established a memorial scholarship fund at Union to aid worthy students. The number and size of the scholarships vary according to student financial need.

The Robert E. and Ann Viall Endowed Scholarships — Mr. and Mrs. Robert E. Viall of Barbourville, Kentucky, have established endowed scholarships that provide $6,000 annually for worthy students from either Knox or Bell County. Mr. Viall is a Trustee Emeritus of Union College.

The Nevil and Ethel White Memorial Endowed Music Scholarship — This scholarship given by family and friends, has been designated as a music scholarship for students from Kentucky. If no Kentucky students are eligible the scholarship may be awarded to any student or students majoring in music. Mrs. White was a former member of the music faculty at Union College. Dr. White, her late husband, was a graduate of Union College and served as secretary of the Union College Board of Trustees for many years.

William M. Wilson Memorial Scholarship — The late Mrs. Eva Oldfield Wilson of Barbourville, Kentucky, established a scholarship fund in memory of her late husband. The income from the fund will be used to provide an annual grant of $500 for a promising student preparing to teach in the elementary or secondary schools.

The Dr. C.R. Wimmer Endowed Chemistry Scholarship Fund — This scholarship, established by Mrs. C.R. Wimmer and friends, is to be awarded to a chemistry student at Union College or to one seeking admission as a chemistry student. Dr. Wimmer was professor of chemistry, head of the Chemistry Department and director of the Department of Physical Sciences from 1932 to 1946. He was academic dean at the College from 1934 to 1946.

Dr. Henry M. Zimmerman Scholarship — The late Dr. Henry M. Zimmerman of Pompano Beach, Florida, established a scholarship endowment for needy students of exemplary character who show promise of being able to contribute to the well-being of their country and their fellow man.

Endowments

The Russell M. Bennett Memorial Professor of Sociology Chair — Mrs. Helen Hunt Bennett gave $75,000 to Union in 1946 for the endowment of this professorship. An additional $2,000 was given for equipment for the Business Department.

The Cumberland Gap Genealogical Collection — This collection has been endowed by Dr. Robert M. Blake of Maysville, Kentucky, in

memory of his late wife, Mrs. Noma Osborne Blake, who was a Barbourville native and a proponent of preserving the heritage of the mountain families of the tri-state area of Eastern Kentucky, Eastern Tennessee, and Southwestern Virginia. The collection is under the supervision of the Union College library staff and volunteers from the region.

Andrew and Emma Elizabeth Edinger Memorial Fund — This fund was established by the late Mr. Joseph Edinger in memory of his mother and father. The fund has been increased by other members of the family and the income designated for use in the maintenance of campus buildings.

James P. Faulkner Memorial Endowment — James P. Faulkner of Barbourville, Union College president from 1897 to 1905, gave property to the College, the sale of which produced $57,500. The income from this investment is used for salary support for a faculty member in philosophy.

The Harry L. Frey Scholarship Fund — Harry L. Frey, formerly of Lexington, Kentucky, and a member of the First United Methodist Church of that city, has established an endowment for scholarships for Union College students.

The Raymond W. Gibson, Sr., Chapel Endowment — Mr. Raymond W. "Deacon" Gibson, Senior, of Danville, Kentucky, established a $50,000 endowment at Union College in 1979 for the upkeep and maintenance of the Conway Boatman Chapel. His son, Raymond W. Gibson, Jr., served as Campus Minister at Union College from 1974 to 1979 and is currently a Union College trustee. The late Mr. Gibson, a prominent layman in the Kentucky Conference of the United Methodist Church, was a long-time friend of Union College.

Dr. Frank A. and Mrs. Eleanor Gilbert Biology Faculty Endowment — The late Dr. and Mrs. Frank A. Gilbert established a Biology Department Endowment to augment the salaries of the biology faculty. The annual supplement will be in addition to regular salaries. Dr. Gilbert was professor emeritus of biology at Union College.

The Charles M. and Mary D. Grant Faculty Endowment — The Charles M. and Mary D. Grant Foundation of New York City has provided an endowment for faculty development at Union College. The yield from this fund will support increased faculty salaries and professional advancement for the faculty members. The endowment was established in 1989.

The Margaret Voorhies Haggin Trust — of New York City has contributed to the Union College Endowment Fund. The yield from this fund will support increased faculty salaries and professional advancement for the faculty members. The endowment was established in 1989. The trust contribution is in memory of the late James B. Haggin of Lexington, Kentucky.

Anna E. and John William Harris Memorial Fund — The late Dr. J. William Harris established a lectureship fund containing the sum of $30,000 in memory of his sister, Anna E. Harris, and his father, John William Harris.

The William Randolph Hearst Foundation — of New York City has established an endowment for faculty development at Union College. The yield from this fund will be used to support increased faculty salaries and professional advancement for the faculty members. The endowment was established in 1987.

The Ray C. Hensley Business Simulation Center Endowment — This has been established by Cavalier Construction, Inc., of Springfield, Ohio, as a memorial to Ray C. Hensley, the father of Pamela K. Hensley, an alumna and former faculty member at Union College. This was established in 1990.

The Kenneth G. Herrick Faculty Endowment — Kenneth G. Herrick of Tecumseh, Michigan, has established a Faculty Development Endowment at Union College. The yield from this fund will support increased faculty salaries and professional advancement for the faculty. This endowment was established in 1986.

The Professor Daniel M. Humfleet Scholarship Endowment — Mrs. Bernice Humfleet Aguilera of Natchitoches, Louisiana, has established a $25,000 endowment at Union College in memory of her father, Professor Daniel M. Humfleet, a former faculty member of the College. The yield from this fund will go for the support of a scholarship for a Knox County student who plans to enter the teaching profession. The scholarship will begin following the lifetime of Mrs. Augilera.

Charles and Leona Jennings Memorial Funds — Dr. Charles M. Jennings of Marietta, Georgia, has established an endowment fund in memory of his parents, Charles and Leona Jennings, the income from which is to be used

to provide an annual bonus to the head of the Department of Biology at Union College.

William Jones Endowment Fund — The late Mr. William Jones of Barbourville, Kentucky, established a fund, the income from which is designated for use by the music department to purchase recordings and musical scores.

Jeffrey Kronk Memorial Endowment — This endowment, established by the Senior Class of 1967, in memory of Jeffrey Kronk, a member of that class, will assist in purchasing books for Union College's Lincoln-Civil War Collection.

Francis Landrum Memorial Professor of Religion and Philosophy — The late Mrs. Obed J. Wilson established the Francis Landrum memorial professorship through a bequest of $50,000 in 1927.

Melanie Jean Martin Trust Fund — Dr. and Mrs. O. J. Wilson, of Bowling Green, Kentucky, have established a memorial fund in memory of their granddaughter. The income from this fund is used to purchase library books to support the work of the English department.

Pearl Sinnett Meyer Memorial Fund — The Rev. Dr. Jesse I. Meyer has established an endowment fund in memory of his wife, Mrs. Pearl Sinnett Meyer. The income of this fund is designed for the purchase of books for the Union College library.

Allan Tuggle Endowment Fund — Allan Tuggle, M.D., of Charlotte, North Carolina, an alumnus of Union College, has established a fund, which may be augmented from time to time, the income from which is designated for scholarships, awards, and instructional support in mathematics and physics.

The Bryan W. Whitfield-Kentucky Jellico Coal Company Memorial Fund — This fund was established by Bryan W. Whitfield, Jr., of Harlan, Kentucky, in memory of his father, Bryan W. Whitfield, founder of the Kentucky Jellico Coal Company. The income shall be used to establish a Student Financial Aid Loan Fund. The recipients shall be limited to students from Bell, Harlan, Knox, Letcher, and Whitley Counties in Kentucky and from Lee and Wise Counties in Virginia. The students are to be partially or wholly self-supporting.

Willson-Gross Lectures — The late Dr. and Mrs. James Wilson of Floydada, Texas, established a lectureship endowment in memory of Dr. and Mrs. John Owen Gross. The purpose of the lectures is to bring annually to the cam pus distinguished speakers to discuss vital is sues confronting the Christian student.

Colutha J. Taylor Wright Memorial Fund - The late Mr. J. S. Wright of Whitley City, Ker tucky, established an endowment fund i memory of his wife, Mrs. Colutha J. Taylc Wright. The initial sum was $1,000.

Awards

Note: These awards may be presented at th annual Honors Day Convocation. Some are ac ademic in nature; to be eligible for suc awards, students' academic records should nc include any grades of "incomplete." Postgrac uate students are ineligible to receive thes awards.

Alpha Psi Omega Award — given by th Director of Union College Theatre to the senic who has made outstanding contributions t theatre during his/her years at Union.

Bjornstad Freshman Composition Award - given by the late Dr. William Bjornstad, a fo mer faculty member of Union College, an Mrs. Bjornstad, to the student achieving th highest writing excellence in freshman com position courses as determined by the Englis Department.

Governor James D. Black Senior Award - given by the late Mr. Pitzer D. Black of Ba bourville to the senior with the highest sch lastic average for the year.

Blackwell Political Science Memoria Award — given by the late Dr. Robert Le Blackwell to the senior majoring in history anc or political science showing the highest ac demic excellence in the field of political sc ence.

Erwin S. Bradley History Award — given t an upperclass student with a major in histor who has the highest scholastic average in ove all grades in history earned at Union College

Melva and Kathy Brick Award — given b Mr. Theodore F. Brick, family and friends t the student showing the highest proficiency i competitive swimming.

Calculus Award — given by a friend of th College to the student with the highest cu mulative average in all three calculus course offered at Union.

Campus Activities Board Award — given b the Campus Activities Board to the junior c

senior member who has contributed the most to the Board and to student activities at Union College during the current academic year.

Campus Activities Discretionary Fund Committee Student Organization Achievement Award — given by the Campus Activities Discretionary Fund Committee to the campus organization which, in the committee's opinion, has contributed the most toward campus activities during the academic year.

Campus Ministry Award — given to the senior who, by his or her actions, exemplifies selflessness and concern for the needs and well-being of others as determined by the office of Campus Ministry.

Chemical Rubber Company Freshman Chemistry Award — given by the Chemical Rubber Company Press of Boca Raton, Florida, to the outstanding freshman chemistry major.

Dr. Theodore R. Davies Senior Biology Award — given in memory of the late Dr. Theodore R. Davies to the senior student showing the highest academic excellence in the field of biology.

Eastern Kentucky Essay Award — given by the late Dr. Kenneth H. Tuggle, a former trustee of Union College, to the student writing the best essay on eastern Kentucky history.

Engineering Award — given by a friend of the College to the student with the highest cumulative average in pre-engineering courses taught at Union College.

Evans, Phillips & Company Scholarship Award — given by Evans, Phillips & Company, C.P.A.'s of Barbourville — an annual $500 scholarship to be awarded to the most promising freshman or sophomore accounting major. The scholarship is to be used in the fall semester. The recipient also receives a plaque and a cash award.

Gamma Beta Phi Award — given by Gamma Beta Phi to the full time student with the highest cumulative average in hours earned at Union College.

Dr. L.A. Geiss Computer Award — given by the late Dr. and Mrs. L.A. Geiss, to the student exemplifying excellence in computer information systems. Dr. Geiss was a Union College trustee.

Dr. L.A. Geiss Junior Award — given by the late Dr. and Mrs. L.A. Geiss, to the junior majoring in accounting with the highest cumulative standing in that field. Dr. Geiss was a Union College trustee.

Dr. L.A. Geiss Senior Award — given by the late Dr. and Mrs. L.A. Geiss, to the graduating senior majoring in business with the highest cumulative standing in the field. Dr. Geiss was a Union College trustee.

Dr. Albert D. Graham, Jr., Social Studies Award — given by Dr. Albert D. Graham, Jr., to the senior education major who shows the greatest teaching potential in Social Studies.

Joe C. Hacker Award — given by a friend of Union College in honor of Mr. Joe C. Hacker who was a member of the Union College faculty for over thirty years. This award is given to the student showing interest and excellence in a first computer programming course.

Health and Physical Education Faculty Award — given by the Union College Health and Physical Education Department to the senior Health or Physical Education major with the highest cumulative academic standing.

Iota Sigma Nu Freshman Award — given by the Iota Sigma Nu Honor Society to the freshman with the highest scholastic average for the year.

Iota Sigma Nu Sophomore Award — given by the Iota Sigma Nu Honor Society to the sophomore with the highest scholastic average for the year.

H.B. Jones Business Enterprise Award — given in memory of Mr. H.B. Jones to the student who has shown initiative and enterprise in the field of business.

Steve Jones Memorial Award — given in memory of Steve Jones, a former Union College student, to the senior varsity letterperson with the highest cumulative academic average.

The Journalism Award — given by the English and Foreign Languages Department of Union College to the English major with journalism emphasis who has done the most to promote high journalism standards at Union College and who shows the greatest promise for success in a professional journalistic career.

The Literature Award — given by the Barbourville Tuesday Club to the student majoring in English who shows the greatest excellence in the field of literature.

Marigold Microcomputer Lab Award — given by the Union College Business Department in honor of Mrs. Connie Marigold, whose assistance and enthusiasm have greatly contributed to the development of the microcomputer laboratory. This award is given to the

microcomputer laboratory assistant who has best demonstrated excellence through service to students and faculty in the microcomputer laboratory.

Mathematics Award — given by a friend of the College to the graduating math major who has the highest cumulative average in math courses at Union College.

Military Science Awards — these awards are given by various organizations to military science students for outstanding leadership qualities and achievements.

Dr. Mahlon A. Miller President Emeritus Award — given by Dr. and Mrs. Mahlon A. Miller to the senior with the highest cumulative average earned at Union College. Dr. Miller served as President of Union College from 1959-1982 and is currently President Emeritus.

Rena Milliken Award — given in honor of Miss Rena Milliken, Professor Emeritus of Business at Union College, by the Union College Business Department to the graduating senior who shows the greatest potential for professional achievement.

Dr. Paul Muncy Memorial Award — given in memory of Dr. Paul Muncy to the senior premedical student with the highest cumulative academic standing.

Music Faculty Award — given by the Union College Department of Music and Fine Arts to a music major for his or her interest, initiative, cooperation, musical ability, academics and service to the Music Department.

National Education Association — Student Program Award — given by the Union College Chapter of the National Education Association — Student Program to the graduating senior showing the greatest excellence in the field of education.

H.H. Owens History Award — given by the late Mrs. H.H. Owens to the student showing the greatest excellence in the field of history.

Laws and Esten Parks Award — given by Dr. S. Laws Parks, former Vice President for Business Affairs at Union College, and Mrs. Parks, to the senior religion major with the highest cumulative academic standing.

Patridge Theta Pi Delta Awards — given by the "Union Express" and Stespean staffs in honor of Dr. Frances Patridge, Associate Professor Emeritus of Health and Physical Education and former Vice President for Student Affairs at Union College, to seniors who rep resent the qualities of outstanding service ex hibited by Dr. Patridge.

Phoenix Award — given by the theatre fac ulty to the freshman whose contributions mak him/her the theatre's hope for the future.

Physics Award — given by a friend of th College to the student showing the greatest ex cellence in the general physics course taugh at Union College.

William Faulkner Rushton Award for Ap palachian Literature — given in memory c William Faulkner Rushton. This award ha been established by parents and friends i honor of Mrs. Lura Faulkner Rose, the late M Rushton's grandmother. Awards will be give to Union College students and students from Knox County high school. Winning papers wi be selected by a committee of judges from en tries submitted by classroom teachers.

Sampson Political Science Award — give by the late Governor Flem D. Sampson to th junior showing the highest academic exce lence in the field of political science.

William Hugh Smith Memorial Award — given in memory of the Reverend Williar Hugh Smith to a pre-ministerial or Christiar service student (with preference being given t a Christian-service student) who shows prom ise in the ministry.

Outstanding Sociology Major Award — given by the Social Science Division faculty t the graduating sociology major with the high est cumulative grade point average.

Hattie Stanberry Ecology Award — given i memory of Hattie Stanberry, an alumna an former faculty member, to the student or o ganization that has made a contribution to en vironmental improvement in the academi year. If there is no qualified candidate, the $5 stipend shall go to the College's Soccer Clu or, if there is none, it shall go to the Annu Fund.

Student Government Association Award — given to the newly elected Student Govern ment Association President.

Student Government Association and Cam pus Activities Board Certificate of Servic Award — given by the Union College Studen Government Association and Campus Activi ties Board to a member of the Union Colleg staff for his or her contributions to the Studen

Government Association and Campus Activities Board during the past year.

Student Government Association Distinguished Professor Award — given by the Union College Student Government Association to a member of the Union College faculty.

Katherine V. Sutphen Memorial Award — given in memory of Katherine V. Sutphen, a former faculty member of Union College, to the student who has used his or her talents best during the current academic year in serving the Union College Music Department.

Judge W.W. Tinsley Family Memorial Award — given by the late Mrs. Mayo Tinsley Rathfon to the junior or senior preparing for a legal career showing the greatest promise for future success.

Tremco, Inc. Award — given by Tremco, Inc. of Barbourville to the junior majoring in chemistry showing the highest academic excellence as determined by the science faculty.

Beverly P. and Mossie B. Wilson Memorial Award — given by Dr. and Mrs. O.J. Wilson in memory of Dr. Wilson's parents to the English major with the highest cumulative grade point average who has completed three full years of residence at Union College.

Dr. Cecil H. Wilson Junior Award — given by Dr. Cecil H. Wilson, an alumnus and trustee of Union College, to the junior with the highest scholastic average for the year.

John Henry Wilson Sophomore Award — given by Mrs. Guy D. Atkisson, Jr., of St. Petersburg, Florida, the granddaughter of the late John Henry Wilson of Barbourville, to the sophomore from the Fifth Congressional District of Kentucky who has the highest scholastic average for the year.

Wimmer Chemistry Award — given by Mrs. Connie Wimmer in memory of her husband, Dr. C.R. Wimmer, to the student showing the greatest promise in the field of chemistry. Dr. C. R. Wimmer was head of the Chemistry Department at Union College from 1932 to 1946. He also served as academic dean during this time.

THE ACADEMIC PROGRAM

Academic Calendar

Union College operates on a semester system. The Fall semester begins in late August and ends before Christmas. The Spring semester runs from January to early May. The College has a special three-week May interim session as well as two five-week summer terms.

Course Load

The normal undergraduate student load is sixteen semester hours per semester. Students who have an average academic standing may register for a maximum of eighteen semester hours credit per semester. Students who attain a "B" average are permitted to earn up to twenty-one semester hours per semester. Exceptions must be approved by the Vice President for Academic Affairs.

The maximum load in the May interim is three semester hours. The maximum load in each summer term is six semester hours. Students whose cumulative grade point average is "B" or better may request permission from the Vice President for Academic Affairs to take seven hours during each regular summer term.

Class Attendance

1. Class attendance is required. Each student is responsible for all work from the first day of class and is expected to attend all meetings of the class for which he is registered. This is regarded as a matter of individual student responsibility.
2. All faculty members are expected to keep accurate records of class attendance.
3. Class absences due to circumstances beyond the control of the student will be excused by the teacher involved if the request is made within one week of return to campus. Class work or tests in these classes must be made up.
4. Class work and tests missed due to illness of a student can be made up only when the student presents the teacher with a valid excuse when he returns to class.
5. Class work and tests missed by the student while he is participating in an activity sponsored by Union College may be made up only when the faculty sponsor of such an activity signs the official absence list of students.

Withdrawal From Courses

A student is not automatically withdrawn when he stops attending a class. Official withdrawals are made only on forms provided by the Registrar's Office. It is the student's responsibility to complete this form, obtain the signatures needed, and return it to the Registrar's Office. Failure on the part of a student to follow this withdrawal procedure will result in a grade of "F" for the term.

Course Numbering System

Courses numbered 100 or 200 are intended primarily for lower division students and 300- and 400-level courses are generally reserved for upperclassmen. Freshmen or Sophomores desiring to enter 300- or 400-level courses should confer with the division chairperson involved for permission to enroll. 500-level courses are restricted to graduate students.

Courses with hyphenated numbers (101-102) are used when the first semester is prerequisite to the second.

Reserved Course Numbers

Some special numbers are reserved for specific types of courses or studies. They may be used in any department although they are not shown in the following pages under the specific listings.

001-099	Non-credit special interest courses.
181, 281, 381, 481,581	"Special Topics" courses — classes developed on a one-time or experimental basis, or a special innovative class.
282, 482, 582	Special workshops, credit or non-credit.
183, 283, 483, 583	Television courses through Kentucky Education Television Network.
184, 284, 384, 484	May interim courses not listed under a regular catalog number.
285, 485	Experiential Education — Study abroad, internships, cooperative work, experience and vocational work experience.

37, 487	Field Practicum in specialized areas.
95, 595	Independent Study — individual research on approved topics not found in traditional courses. May be repeated on different topics.

pecial Notations

Each course description indicates the semes- r the course will be offered — (F) for Fall emester, (S) for Spring Semester, and (Sum) r Summer Session.

Many regular year courses are offered in immer sessions but are not guaranteed offer- gs.

Courses indicated as being offered in "Even ears Only" are offered on an alternate year asis in academic years *beginning* with even umbers, such as 1978-79. "Odd Years Only" urses are offered on an alternate year basis academic years *beginning* with odd numbers, ich as 1979-80.

Students should consult regularly with their dvisors to ensure proper progress toward eir degree. In the junior year, a curriculum an will be done by the Registrar. This will dicate the courses the student has already mpleted toward the degree major on file in e Registrar's Office. **Each student is respon- ble for completing all requirements.**

he Grading System nd Quality Points

Marks are reported in letters as follows:

A — Represents distinctly superior work, valued at four quality points for each semester hour.

B — Represents above average work, valued at three quality points for each semester hour.

C — Represents average work, valued at two quality points for each semester hour.

r — Indicates that a course has been passed satisfactorily.

D — Represents inferior but passing work, valued at one quality point.

F — Indicates failure with 0 credits and 0 quality points for each semester hour or failure to officially withdraw from a course.

NP — Indicates No Grade Posted - For Developmental studies courses only.

The "NP" is given for the student who is still in the process of mastering the skills in the developmental course(s) the "in progress" grade is given. This grade does not negatively affect the GPA as an "F" does. The student must register for the course the next enrolled semester or the "NP" becomes an "F". The "NP" is used only in developmental courses when students are showing satisfactory progress in mastering the content of the course.

W — Indicates that a student withdrew during the first 12 weeks of the semester.

I — Indicates that in the opinion of the instructor the student has not been able to complete the required work of the course on time due to unavoidable circumstances.

An "I" received at the end of any semester must be removed before the end of the next semester if the student is enrolled for that term. If the student is not enrolled, the "I" must be removed before the end of the 12 month period following the date on which the "I" was received. Any exceptions to the time limit must be made by agreement of the instructor, division chairperson, and Registrar. If an "I" is not removed within that time limit, it remains on the permanent record and cannot be made up.

Quality Point Standing

The quality point standing of a student is determined by dividing the total quality points which he has earned by the total number of semester hours for which he has registered minus the number of hours of Credit and Incomplete on his record.

Classification of Students

Freshman	less than 32 semester hours
Sophomore	32 semester hours
Junior	64 semester hours
Senior	96 semester hours

Credit/Fail Option

The purpose of the Credit/Fail option is to provide the opportunity for students to explore elective courses outside their area, major,

or minor without engaging in competition with students specializing in those subjects and without jeopardizing their grade point average.

This option excludes all courses in the Liberal Education Core and any area, major, or minor. It is available only to those students with at least sophomore classification and those maintaining a 2.0 grade point average. This option is also available to transfer students of sophomore classification and who have completed at least twelve hours of satisfactory work at Union College.

This option allows that no more than fifteen semester hours may be applied toward graduation with a Bachelor's degree, no more than two courses per academic year (July through June), and only two courses in any single discipline. No more than nine hours may be applied toward graduation with an Associate degree.

A student must apply in the Registrar's Office for the Credit/Fail option by the last date identified in the current academic calendar to withdraw from a course with a grade of "W". It is a matter between the Office of the Registrar and the student. The information is not available to instructors except when the student communicates the same to the instructor. A grade of "D" or above will be recorded as CR and an "F" will be recorded as such.

Examinations and Reports of Marks

Examinations are held at the close of each semester. Tests are held at such times during each semester as the instructors may determine. Mid-semester and semester grades are reported by the instructors to the Registrar. Mid-semester grades are sent to the students' advisors as soon as possible, and students may obtain these grades from their advisors. Copies of final semester grades are mailed to the address designated by the student. Only final grades become a part of the student's permanent record.

Grade Appeal

Students are entitled to redress any grievances relative to grades. Please refer to the student handbook or contact the Office of Academic Affairs.

Honor Students

Union College recognizes excellent schola ship in three ways: The Dean's List, the Pre dential Laureates, and graduation with hono

The Dean's List is comprised of those st dents who have completed at least 12 hours graded work with a 3.25 grade point avera and no grades of "I" for the semester. This li is published after the fall and spring semeste

Presidential Laureates are those studen who meet all requirements for the Dean's Li and achieve at least a 3.75 grade point avera for two successive semesters with at least hours of graded work and no grades of "I" each semester. The two summer sessions m be counted as one of these semesters if the mi imum hours have been earned. The list of st dents designated as Presidential Laureates published after the fall and spring semester.

Appropriate certificates are given in reco nition of both of these achievements, and gra uation honors are noted on the diplomas those receiving degrees with distinction (d scribed on page 39 of this catalog).

Academic Probation and Suspension

Students falling below the following gra point average and corresponding minimum s mester hours will be placed on Academic Pr bation:

Freshmen ..... 1.
Sophomores (32 hours) ..... 1.
Juniors (64 hours) ..... 2.
Seniors (96 hours) ..... 2.

Probationary students are closely monitor by the Admissions and Academic Standi Committee of the College. Students who a on academic probation may be restricted as courses taken, required to repeat courses which low grades have been earned, lo Union College financial aid, or be suspend from the College.

A student admitted to the College on Ac demic Probation may have two semesters which to meet the minimum academic sta dards. Failure to attain the required GPA at t end of these two semesters may result in su pension from the College. A letter of continu probation will be issued at the end of the fi semester of the student's not meeting the mi imum standards.

A student admitted to the College in good ;anding as a first-time freshman will receive ;otificaton of academic probation if the GPA is ;elow the minimum required after the first se- ;ester. Notification of academic suspension ;ay be sent to the student at the end of the ;cond consecutive semester in which the cu- ;ulative GPA falls below the required mini- ;um standard.

A student under academic suspension from ;nion College must sit out one semester before ;eing considered for readmission. At the dis- ;etion of the Admissions and Academic Stand- ;g Committee, a student may be suspended ;r one full academic year. In order for a stu- ;ent to be readmitted to Union College, he/she ;ust reapply through the Office of Admis- ;ons. Upon readmission, a student may be sub- ;ct to restrictions as established by the ;ommittee relative to number of hours al- ;wed and the repeating of courses. Any stu- ;ent readmitted after suspension from Union ;ay be placed on academic probation.

;cademic Amnesty

Students having received a grade point av- ;rage (GPA) of less than 2.0 in a semester may ;pply once only to the Registrar for academic ;mnesty after having completed two consecu- ;ve full time semesters or twenty-four hours ;f part time work with a GPA of 2.0. Twelve ;emester hours earned during the summer ;rms may be counted as one semester. Course ;tles and grades remain as previously recorded ;n the academic record. Credit will be given ;r courses with grades of "C" or higher. None ;f the grades in the semester for which aca- ;emic amnesty is granted will be used in cal- ;ulating the GPA. Transfer students bringing ;ss than a 2.0 GPA or having received any ;rm of academic amnesty at another institu- ;on do not quality for any amnesty option at ;nion. Students who receive amnesty will not ;e eligible for academic honors based on cu- ;ulative GPA.

;cademic Honesty

Union College has a right to expect a high ;tandard of academic integrity. Academic dis- ;onesty such as plagiarism, collaboration, or ;heating will not be tolerated. Examples of ac- ;demic dishonesty may include:

1. Plagiarism - taking ideas, writings, etc., from another and presenting them as one's own.
2. Writing papers for other students.
3. Cheating (using illegal notes, copying, etc.) on examinations.
4. Unauthorized collaboration - unauthorized assistance with written or oral material.

Incidents of academic dishonesty will be dealt with by the individual professor, who may consult with the Department Head, Division Chair, or Vice President for Academic Affairs. Incidents of academic dishonesty will be reported in writing to the Office of Academic Affairs. Students have a right of appeal and are referred to the publication, **Union and You**, under the section "Academic Due Process".

The Instructor may impose one of the following penalties:

1. Administer another examination or outside assignment.
2. Assign a grade of "F" for the examination or outside assignment.
3. Assign a grade of "F" for the course, expelling the student from the course.

In severe or repeated incidences of academic dishonesty, the Vice President for Academic Affairs may suspend or expel a student from the college, after appropriate consultation.

Portfolio Development Program

The Portfolio Development Program is a program designed to accommodate non-traditional students who have not been to college before or who dropped out of college in previous years and would like to return. It is structured to make it possible for these students to earn academic credit for prior learning that has come from life/work experiences. Students must register for the initial course, Portfolio Development, in order to learn how to develop a portfolio document. For further information, contact the Director of Portfolio Development or the Office of Admissions.

College-Level Examination Program (CLEP)

Union College is a regional testing center for the College-Level Examination Program (CLEP). The CLEP tests provide college credit for material students have mastered through self-study or non-accredited classes. As an Open Testing Center, Union College administers CLEP exams the second week of August, October, February and April. Students must register and pay at least three weeks in advance allowing the Testing Center time to order and receive the tests. The fee for the test is nonrefundable in the event the student decides not to take the exam.

By passing the CLEP examinations, degree-seeking students enrolled at Union College can earn up to 30 semester hours of credit toward a four-year program; 15 hours may be earned toward a two-year program. High school special students, and other special students, are not eligible. Credit may not be earned, through CLEP, for courses required for teacher certification by the Kentucky Department of Education. CLEP can not be utilized to make up a failed course.

Exams in the general battery must be taken before the student achieves sophomore status. Further information is available in the Office of Special Programs.

Credit By Examination

1. The student will apply for credit by examination at the office of the Registrar. An initial screening interview will be conducted and the division chairperson and appropriate faculty member will be consulted to determine if an evaluation seems feasible.
2. If an evaluation is feasible, the student will take a completed application form to the faculty member and arrange for an evaluation date. The faculty member will prepare an evaluation procedure, carry out the evaluation, and report the results to the Registrar.
3. Reported results will include a recommendation as to whether or not credit should be awarded and a description of the evaluation procedure and student performance. This material will be maintained on file in the Instructor's Office.
4. The recommendation and evaluation d scription will be forwarded to the divisi chairperson or a designated represent tive for review. If the division represer ative does not concur, the facul member, designated representative there is one), and the division chairpers will meet with the Vice President for A ademic Affairs to seek a resolution.
5. Successful completion of a challenge e amination will be reported to the Regi trar by the Instructor and will be record as "Credit" on the transcript. An unsu cessful challenge will not be recorded.
6. Students enrolled in a course may reque a challenge examination only within t period when a new course may be adde
7. Challenge examinations may not be us for developmental courses, to repeat course, or remove an "F" from the tra script.

Independent Study and Experiential Education

Union offers to qualified students the o portunity to work independently to earn cred for graduation. This option is reserved prima ily for Junior and Senior students who ha indicated the academic maturity to be able accomplish the requirements of the course.

Registration for either of these options during the designated time period for registr tion of other courses. Deadlines for addin courses should be adhered to for Independer Study and Experiential Education. Forms ca be obtained from the Registrar's Office.

Correspondence Courses

Any student planning to graduate fro Union College must receive permission fro the Registrar to register for correspondenc courses.

Students applying for permission to ear correspondence credit must follow the sam guidelines as stated for full-time students un der "Course Load" on page 30. The state number of hours will apply only for the se mester or term in which the student registere

Not more than six semester hours of corre spondence work done in one academic yea

will be accepted by the College. Not more than ix credit hours in a major may be completed y correspondence. Not more than sixteen semester hours of correspondence credit will be ccepted toward a degree. Not more than six emester hours of correspondence may be accepted during the senior year.

Failure or quality point deficiencies in any ourse done in residence cannot be removed y transfer credit, correspondence or Independent Study. Graduating seniors must complete any correspondence work needed for raduation at least four weeks before the date f Commencement.

Transfer Credit for Union College Students

A student at Union College who wishes to ake course work at another accredited college r university must obtain written permission rom the Registrar **before** enrolling in the ourse. Union College students can not register or more than a total of seventeen semester hours per term, including all off campus courses, without the consent of the Vice President for Academic Affairs. Failure or quality point deficiencies in any course work done at Union College can not be removed by transfer credit, correspondence or Independent Study.

Students who have earned a minimum of sixty-two semester hours credit at Union College may transfer a maximum of six semester hours to Union during their final twenty-four hours of baccalaureate degree work. Students who have earned fewer than sixty semester hours credit at Union College may transfer a maximum of six semester hours to Union during their final thirty-six hours of baccalaureate work.

Associate degree students who have earned a minimum of thirty-two semester hours credit at Union College may transfer a maximum of six semester hours to Union during their final eighteen semester hours.

Assessment Day Activities

Union College has developed a plan of action related to on-going assessment of our academic programs as well as other aspects of our college community. This is a continuous program throughout the school year but much of the data collection will center around an Assessment Day, identified in the school calendar, where students are expected to participate. Since an on-going evaluation of college programs is important to the quality of our offerings and because the Southern Association of Colleges and Schools requires some type of assessment program, this Assessment Day participation has been made a part of graduation requirements. Questions related to this program should be directed to the Director of Assessment or the Vice President for Academic Affairs.

Convocations

There are five convocations held at Union each year, Fall Convocation, Spring Convocation, Honors Convocation, and one other each semester. Attendance is required of all full time students for all convocations except Honors Convocation. If a student misses any of the required convocations they must state in writing the reason for missing to the Office of Academic Affairs. Alternate forms of make-up are available to the students and these are indicated in correspondence each semester. Failure to comply will result in a letter of non-compliance being placed in the students folder.

Graduation Requirements

Requirements for Graduation — Bachelor Degrees — Arts, Music, and Science.

The candidates must satisfy the following requirements:

1. Minimum of 128 semester hours. Thirty of the last thirty-six must be earned in residence at Union College. Students who have earned as many as sixty-one semester hours at Union College may graduate with eighteen of the last twenty-four hours earned in residence. At least thirty-nine semester hours must be in courses numbered 300 or above.
2. Quality point standing of 2.00 overall and at Union, and in all courses taken in the major or minor fields unless a specific department requires a higher GPA.
3. Completion of the Liberal Education Core.
4. The equivalent of 12 semester hours of a single foreign language not native to the

student is required for the Bachelor of Arts Degree. Equivalency shall be determined by the successful completion of the fourth college course of the language. Students with prior training in that language at the high-school level may be eligible for advanced placement in the sequence of courses and meet the requirement with fewer than twelve credit hours.

Religion majors may substitute a year of Hebrew and a year of Greek for the language requirement for the Bachelor of Arts degree.

5. For the Bachelor of Science degree the student must meet all graduation requirements, including a major or area. A foreign language may or may not be required as determined by the individual discipline.

6. Completion of either:

   a. A major as determined by the faculty of the individual discipline.
   Majors are offered in: Accounting, Biology, Business Administration, Business Education, Chemistry, Christian Education, Church Music, Computer Information Systems, Criminal Justice, Drama, Early Elementary Education, English, English with Journalism Emphasis, History, History and Political Science, Mathematics, Middle Grades Education, Music, Music and Business, Music Education, Office Administration, Philosophy/Religion, Physical Education, Physics, Psychology, Religion, Science Education, Secondary Education, Sociology, and Sports Management.
   Minors are offered in: Accounting, Appalachian Studies, Biology, Business Administration, Chemistry, Computer Information Systems, Computer Science, Criminal Justice, Drama, Economics, English, Environmental Studies, Health Education, History, Journalism, Marketing, Mathematics, Military Science, Music, Office Administration, Philosophy, Physics, Political Science, Psychology, Religion and Sociology.

   b. An area, the structure of which is determined by the faculty of the Division in which the area requirements are met.
   Areas are offered in: English, H tory and Political Science, Mathem ics-Physical Science, Science and Soc Studies.

7. At least thirty-nine semester hours offer for graduation must be earned in juni and senior courses (300 or above); at lea six semester hours 300 and above, earn at Union, must be included in any minc at least twelve semester hours 300 ar above (evenly distributed in the two fiel if this is a combined major), earned Union, must be included in a thirty-ho major; at least eighteen semester hou 300 and above earned at Union must l included in an area or fifty-four hour m jor.

8. Participation in annual Assessment D testing activities is required each year all senior students. Those with speci problems may contact the Vice Preside for Academic Affairs for waiver.

9. Advice in arranging schedules and choo ing courses is always given gladly; hov ever, each student is responsible f completing all requirements.

Associate Degree — see specific program requirement

Combined Degrees

The bachelor degrees may be granted to st dents who have completed three years of wo at Union College and one year of work in a accredited professional school with the follo ing provisions:

1. The work in the professional school mu continue the curriculum in which the st dent has been enrolled at Union Colleg (pre-law, pre-dentistry, pre-medicin etc.)

2. The student must have completed sati factorily the minimum requirements f three years of pre-professional work Union College (ninety-six semester hou with a quality-point standing of at lea 2.00) and also the general college require ments for graduation, including the fo eign language requirement if a B.A. i desired.

3. The student must have completed satisfactorily the minimum requirements for one year of study at the accredited professional school in which he is enrolled. The number of credits at the end of the four years of study must total at least 128 semester hours.

ACADEMIC RECORDS

'amily Educational Rights nd Privacy Act

The following policy is in accord with Ken-ıcky Revised Statute 164.283, the Family Ed-cational Rights and Privacy Act of 1974 'ublic Law 93-380) as amended (Public Law 3-568), also known as the Buckley Amend-ıent, and the regulations formulated by the .S. Department of Education.

Union College provides eligible students or ıeir parents, when applicable, with the op-ortunity to review the student's education ecords, to seek correction of information con-ained in these records, and to limit disclosure f information from the records.

Eligible students or their parents, when appli-able, may file a complaint with the U.S. Depart-ıent of Education if any of their rights under the amily Educational Rights and Privacy Act of 1974 ave been violated. Information concerning the ights enumerated in this act, as well as informa-on concerning complaint procedures, is available ı the Registrar's Office.

The College will release directory informa-ion to the general public in response to a le-itimate request unless the student concerned iles a written request with the Registrar that uch information be withheld from the public. Directory information is defined as student ıame, address, classification, telephone num-er, dates of attendance, date and place of irth, degree(s) earned, previous educational nstitutions attended, and honors and awards eceived.)

The Privacy Act also prohibits the distribu-ion of grades to parents or guardians without student's prior written consent, or a state-ıent of dependency from parent or guardian vhen the student is a dependent as defined ınder the Internal Revenue Code.

Union College will, however, release records nd accounts pertaining to veterans, as well as to other students, to appropriate U.S. government representatives. This exception to all other federal laws is found in Title 38 of the U.S. code, Section 1790(c).

Degrees with Distinction

Honors in Scholarship are recorded on the diplomas of the students earning them. There are three grades of honors designated respectively: *cum laude, magna cum laude,* and *summa cum laude.* These honors are conferred at graduation upon students who satisfy the following conditions of scholarship:

The honor of *cum laude* is awarded to those students who have earned an average standing of 3.5 overall and at Union.

The honor of *magna cum laude* is awarded to the students who have earned an average standing of 3.75 overall and at Union.

The honor of *summa cum laude* is awarded to those students who have earned an average standing of 3.9 overall and at Union.

Students coming from other colleges may receive honors on completing 61 semester hours of resident study and satisfying the conditions of the scholarship prescribed by the faculty, provided they also furnish such evidence of high scholarship in the institution from which they come as may, in the judgment of the faculty, entitle them to become candidates for honors under the regulations.

As a reward for excellence in scholarship and to promote diligence in study and encourage high ideals, the honorary scholastic fraternity of Iota Sigma Nu was founded on May 26, 1936. Membership is open upon election to:

(a) All who have met the requirements for graduation with honors.

(b) All students who have at least 74 hours with a 3.2 quality point standing or 100 hours with a 3.0 quality point standing and who have completed a minimum of two years (64 semester hours) in residence at Union College.

ACADEMIC SERVICES

Academic Advising Career Planning and Placement Services

Upon Admission to Union College, students will begin a process whereby career planners and faculty advisors assist them to articulate their career goals, to select academic courses of study appropriate to those goals, and to achieve suitable placement upon completion of their studies.

Academic Advising is considered to be one of the two most important tasks of the faculty—teaching being first. Each student will meet with an academic advisor on an individual basis in order to select courses for each semester. The advisor is also available to help each student learn how to use the resources at Union College and to find solutions to problems which the student might have.

Each student is assigned an academic advisor in his/her chosen field of study. Students who have not made a vocational or professional choice will also be assigned an academic advisor. Upon declaring a major, an advisor in that field will be assigned.

A Career Counselor is also available to assist students. Inventories, workshops, and individual sessions are used to help students in identifying areas of interest or study and work.

The Career Counselor also assists seniors in preparing a placement file and coordinates employment opportunities. This placement file is sent, at no cost, to prospective employers at the student's request.

Undecided Majors

Students who have not made a vocational or professional choice will be assigned an advisor. Once a choice is made, the student will be reassigned to a faculty advisor in the appropriate discipline.

Planned Curriculum

During the junior year, a curriculum plan will be done by the Registrar. This will indicate the courses the student has already completed toward the degree major on file in the Registrar's Office. This is an agreement between the College and t student. Once the curriculum plan has been co pleted, only changes approved by the Regist are binding on the College.

Learning Lab

The Learning Lab offers assistance to st dents in most freshmen and sophomore lev courses. Tutoring is done by trained peer t tors, selected through faculty recommendatic superior academic achievement and persor interviews. Computer assisted instruction also available in English mechanics and mat ematics and in preparing for the vario professional examinations. Students should r quest help as soon as they experience difficul in a class. There is no fee for using the Learni Lab.

For more information on academic advis ment, tutoring, and counseling, contact the D rector of Special Programs.

Computer Facilities

The College has a variety of computers ava able for student and faculty use, including HP-3000 minicomputer, an AT&T Unix-bas super-microcomputer and numerous micr computer systems. Four microcomputer lab ratories on campus are used for instruction ar are available for student and faculty use wh not being used for classes. Three are located Centennial Hall. In room 200, IBM-compatib 286 and 386 microcomputers are available f general use approximately fifty hours ea week, primarily late afternoons and evenin — Monday through Thursday. A network sy tem and connection to the Hewlett Packa System provides numerous opportunities f computer users. In room 209 the Ray C. He sley Business Simulation Center is located. T center contains microcomputers, scanner, las printer and telecommunication capabilitie The Teagle Writing Lab is located in room 10 The laboratory is equipped with 20 Macintos microcomputers and a laser printer that a used for writing courses and student use.

The fourth microcomputer laboratory is l cated in the Mahlon A. Miller Science Cent

ıd contains Apple IIe's and a terminal to the T&T system.

The Computer Information Systems Pro-ram also operates the AT&T system. CIS ma-rs have the opportunity to gain hands-on ‹perience in the operation of this system. Ad-itional microcomputers are available for use ı other areas. A Macintosh and an Apple IIGS :e used in the Learning Lab for tutoring and :medial instruction. An Apple IIGS is used by ıe Music Department in the teaching of its asses, and Apple IIe and an IBM PC are avail-ɔle for use in the various science laboratories.

Most administrative offices use microcom-uters connected to the College's administra-ve minicomputer to assist them in their uties.

)evelopmental Studies

'he **Developmental Studies Program** is de-ıgned to help students become more success-ul in their college studies. Through this rogram Union College has recognized that ach entering student has different strengths nd weaknesses. Some of the common weak-esses are in reading, writing, and math skills.

The College has developed mandatory ourses for students who score

1. below 15 on the English section of the ACT or 350 on the verbal section of the SAT
2. below 9 on the Elementary Algebra sub-section of the ACT or 350 on the quanti-tative section of the SAT
3. below 15 on the Reading section of the ACT or 350 on the verbal section of the SAT

Students who are not required to take the levelopmental courses listed below may elect o take one or more of them after consultation vith their academic advisor.

The mandatory courses include the follow-ng three courses, each carrying 3 semester ıours of credit:

1. **English 110, Developmental English** — is designed to provide development of col-lege-level language skills and to prepare students for English 111.
2. **Mathematics 101, Pre-college Algebra** — is intended for students who need to im-prove their arithmetic and elementary al-gebra skills prior to taking other college mathematics courses or courses requiring quantitative reasoning.
3. **General Studies 101, College Reading** — is designed to help students increase their reading level to more effectively handle the reading requirement in college texts.

Adult and Community Education

Adult and Community Education at Union College provides courses, workshops, semi-nars, and lifelong learning experiences that sat-isfy a wide range of educational needs for adults. Through partnerships with community agencies, schools, business and industry, Union is able to emphasize the importance of lifelong learning while meeting specific needs of dif-ferent segments of the community. Adults study for personal enrichment, to acquire new skills for career advancement, or to enjoy cul-tural or leisure activities. The close student-to-instructor rapport that characterizes Union College adds an exciting dimension to these learning experiences. Students may earn con-tinuing education units for selected short courses and college credit for telecourses avail-able through Kentucky Educational Television.

Union's comprehensive program begins to address the needs of the community by offer-ing, in conjunction with the Council on Higher Education, a drop-out prevention program that couples college students with high school stu-dents on a tutoring/mentoring basis. Destina-tion Graduation is a nationally recognized program. The Adult Literacy program, Adult Basic Education, and GED classes address adults who have not received their high school diplomas by enabling them to prepare for the GED. These programs operate in conjunction with the Office of Adult and Technical Edu-cation of the Workforce Development Cabinet. JOBS addresses the educational needs of adults through life skills training and job readiness training while Workplace Basic Skills works with business and industry to improve work-related educational needs of employed adults. These programs are also operated in conjunc-tion with the Workforce Development Cabinet.

The Community Education component addresses the process of lifelong learning and includes specific requested classes and the Elderhostel program.

Library and Learning Resource Center

The Abigail E. Weeks Memorial Library provides a variety of resources and services to support and enrich the College's academic programs. The library, located in the center of campus, houses a collection of more than 100,000 books, periodicals, government documents, audio-visual materials, and computer databases. These materials are accessible through the BiblioFile public access catalog. This automated catalog provides author, title, subject and keyword searching. The library can accommodate over 300 persons in a variety of seating arrangements, including study carrels, tables, group settings and an audio-visual classroom.

The Learning Resource Center is house within the Library and includes non-print m dia and audio-visual equipment. The equi ment includes a satellite dish providing acce to C-ban and Ku-ban satellite transmissio and a video editing system. The LRC provid educational media materials for classroom u and individualized study. The library staff o fers individual and group instruction in the u of equipment and materials.

The Library contains several special colle tions. The most recently added collection is t Cumberland Gap Genealogy Collection, co sisting of local genealogy and history info mation. Additional collections include t Lincoln-Civil War Collection, the Curriculu Collection, the Music Library and the Scien Reading Room. The library also serves as t repository for the College Archives.

The Weeks Memorial Library participates i state, regional, and national networks, inclu ing the Kentucky Library Network and Sout eastern Library Network. The library staff dedicated to providing members of the Unio College community the information resourc needed to meet their educational goals.

CURRICULUM

MAJORS AND DEGREE PROGRAMS

A college major is actually a means to an end — the means by which a student prepares for a future career, entrance into graduate school, or some change in life style. Union College fers a wide range of majors and minors, as p of the Bachelor's degree and a number of c tificate and 2-year Associate degree progra for those not needing a full 4-year degree.

Degree Area	Major	Minor	Associate Degree	Area of Concentration	Program
APPLIED SCIENCE DIVISION					
Department of Business					
Accounting	X	X	X		
Business Administration	X	X	X		
Business Education	X				
Business and Music	X				
Computer Information Systems	X	X	X		
Economics		X			
Marketing		X			
Office Administration	X	X	X		
Department of Education					
Early Elementary Education	X				
Elementary Education			X		
Middle Grades Education	X				
Secondary Education	X				
Department of Health and Physical Education					
Athletic Training		X			
Health Education		X			
Physical Education	X				
Sports Management	X				
Military Science		X			X
HUMANITIES DIVISION					
Department of English and Foreign Languages					
English	X	X		X	
English with a Journalism Emphasis	X	X			X
Journalism		X			
Department of Music and Fine Arts					
Church Music	X				
Drama	X	X			
Music	X	X			
Music and Business	X				
Music Education	X				
Department of Religion and Philosophy					
Christian Education	X				
Philosophy		X			
Philosophy/Religion	X				
Religion	X	X			

Degree Area	Major	Minor	Associate Degree	Area of Concentration	Program
Biology	X	X			
Chemistry	X	X			
Computer Science		X			
Environmental Studies		X			
Mathematics	X	X			
Physics	X	X			
Pre-Dentistry					X
Pre-Engineering					X
Pre-Medical Technology					X
Pre-Medicine					X
Pre-Optometry					X
Pre-Pharmacy					X
Pre-Physical Therapy					X
Pre-Veterinary Medicine					X
Science Education	X				
Mathematics-Physical Science				X	
Science				X	
SOCIAL SCIENCE DIVISION					
Appalachian Semester					X
Appalachian Studies		X			
Criminal Justice	X	X	X		
History	X	X			
History and Political Science	X				
Political Science		X			
Pre-Law					X
Psychology	X	X			
Social Studies				X	
Sociology	X	X			

GRADUATE, COOPERATIVE, AND INTERDISCIPLINARY PROGRAMS

Graduate Program in Education

Union College offers a unique graduate program designed for in-service teachers in the public schools. The College grants the 5th year certificate for Kentucky teachers and the M.A. degree in Education in the following areas: reading specialist, elementary education, middle school education, and secondary education with emphasis in either physical education/health, history, science, social science, psychology, sociology, or English.

Work beyond the Masters level leading to certification as an elementary or secondary school principal, supervisor of instruction, as well as Rank I (30 hours beyond M.A.) is available. Many courses are offered off-campus.

Qualified holders of the Bachelor's degree should contact the Dean of Graduate Academic Affairs for brochures, catalogs, and information about the graduate program.

Sue Bennett College

Union College has a cooperative agreement with Sue Bennett College, a private United Methodist College located in London, Kentucky (25 miles from Union's campus). This agreement facilitates the articulation of transfer credit and provides scholarships for qualified Sue Bennett students who transfer to Union.

Army ROTC

This is a program which provides college trained officers for the regular United States Army, U.S. Army Reserve and U.S. Army National Guard. Union College offers both the Basic and Advanced courses to qualified students. This program is affiliated with Eastern Kentucky University Army ROTC and specific information can be obtained by making an appointment with the ROTC Representative located on the second floor of the Physical Education Building. (See Applied Science Division for curriculum.)

Concurrent Admissions Program (ConAP)

ConAP is a joint program of the Army a Servicemembers Opportunity Colleges to mit new soldiers into a college or university the same time as they enlist in the Army.

Eligible soldiers are admitted, either on a or provisional basis, with enrollment defer until completion of active military service. P visional admission means that the student m be required to take a reduced course load, enroll in foundation courses, or to under other academic preparation. The student subject to the college's requirements, as pu lished in this catalog, at the time of enrollme in classes. The admission agreement is in eff for two years following completion of act military service.

Pre-Professional Programs

Union College offers several pre-prof sional programs that are affiliated with oth institutions and agencies. These include De tistry, Engineering, Medical Technology, Me icine, Optometry, Pharmacy, Physical Thera and Veterinary Medicine. College person are available in the Natural Science Division advise and counsel students who are interest in these programs. More specific informati can be obtained in the Natural Science Divisi section of this catalog.

Kentucky Institute for International Studies (KIIS)

Union College is a co-operating member the Kentucky Institute for International Stud (KIIS). The college joins with other Kentuc colleges and universities to provide summ study opportunities in six different locatio The programs in France, Spain, Mexico, Ge many, Austria, and Italy are open to all Uni College students and provide courses whi contribute to all of our educational program

ıppalachian Studies

Reflecting the College's primary mission of nproving the quality of life of the Appala-ıian people, Union offers a multi-faceted Ap-alachian Studies Program. One or more ›mponents of the program should be of in-·rest to all students. The program seeks to de-elop an appreciation of the people, culture, ıd socio-economic conditions of the moun-ıin area; to provide opportunities for direct :rvice, research and personal experience in ıe region; to provide the skills and critical un-erstanding needed to work in this area; and › help the students develop an understanding f themselves and others.

The program at present consists of the Ap-alachian Semester outlined in detail below, ıd of various academic courses, identified in ›propriate departmental and division course stings. The student will find an interdiscipli-ary approach to the history, politics, music, atural resources, economics, and other aspects f the region, which will stand them in good ead no matter where they may live later.

ıppalachian Semester

The Appalachian Semester is a unique in-:rdisciplinary academic program in which ma-ıre second semester sophomore, junior, and :nior students from Union College and other institutions throughout the United States devote one full semester to studying the Appalachian region— its strengths, problems and challenges. Students earn a total of fifteen semester hours of academic credit, nine of which are for classroom work with the remaining six in field work in a variety of disciplines. Field work may be either experiential learning conducted in a local service agency or other institutional settings, or it may be directed study in a particular subject. Possible directed study subjects are oral histories, politics, religion, folklore, and environmental issues. The program is designed to combine classroom learning with first-hand knowledge gained through research or a practicum setting. As such, the Semester hopes to promote a critical understanding of a distinct aspect of American society from an interdisciplinary approach.

Opportunities are provided to discuss regional issues with local scholars, politicians, and writers. Field trips are coordinated with seminar discussions in order to introduce participants with the unique components of Appalachian culture.

Course descriptions are included in the curriculum section of this catalog. The Appalachian Semester is offered every fall semester. Detailed information and application forms are available from the Director, Appalachian Semester, Union College.

THE LIBERAL EDUCATION CORE

I. BASIC COMPETENCIES — 12 h

A. FRESHMAN COMPOSITION — 6 h
ENGL 111 Freshman Composition I
ENGL 112 Freshman Composition and Literature

B. MATHEMATICS — 3 h
BHSC 245 Basic Statistics: Theory and Application
MATH 108 Intermediate Algebra
MATH 110 Applications for Mathematics for College Students
MATH 131 College Algebra
MATH 203 Structure of the Number System

C. PHYSICAL WELL BEING — 3 h
HLTH 131 First Aid and Safety Education
HLTH 270 Personal and Community Health

OR

Three Physical Education Activity Courses

II. HUMANITIES — 12-13 h

A. LITERATURE — 3 h
ENGL 212 Western Literature

B. FINE ARTS APPRECIATION — 3-4 h
ART 132 Introduction to Art
ART 273 Art History
DRAM 131 Introduction to the Theatre
MUSIC 121 Introduction to Music
MUSIC 161 or 162 Foundations of Music

C. LITERATURE/FINE ARTS ELECTIVE — 3 h
An additional course from B above or one of:
ENGL 221 or 222 Survey of English Literature
ENGL 231 or 232 Survey of American Literature

D. RELIGION AND PHILOSOPHY — 3 h
PHIL 151 Introduction to Philosophy
RLGN 111 Old Testament History, Literature and Interpretation
RLGN 112 New Testament History, Literature and Interpretation
RLGN 131 World Religions

III. HISTORY, SOCIAL & BEHAVIORAL SCIENCES — 9 h

A. WORLD HISTORY — 3 h
HIST 111 World History to 1500
HIST 112 World History since 1500

B. HISTORY ELECTIVE — 3 h
An additional course from A above or one of:
HIST 201 U.S. History to 1865
HIST 202 U.S. History since 1865

C. SOCIAL SCIENCE — STRUCTURE ELECTIVE — 3 h
ANTH 221 Introduction to Cultural Anthropology
ECON 203 Principles of Macroeconomics I
GEOG 101 Introduction to Geography
PLSC 101 American National Government
PSYH 111 Introduction to Psychology
SOCI 131 Introduction to Sociology

IV. NATURAL SCIENCES 7-8 hrs.

Choose two courses from areas A, B, or C; each of the courses must be in a separate area and one must include a lab.

A. BIOLOGICAL SCIENCE 3-4 hrs.

BIOL 109 Elements of Biology 3
BIOL 111 General Biology 4

B. PHYSICAL SCIENCE 3-4 hrs.

CHEM 101 Introductory General Chemistry 4
CHEM 111 General Chemistry 3
PHYS 111 Elements of General Physics 3
PHYS 112 Elements of General Physics 3

C. ENVIRONMENTAL/EARTH SCIENCE 3-4 hrs.

ENVS 101 Man and the Environment 3
ENVS 110 Physical Systems of the Environment 4
PHYS 105 Astronomy 4

D. LABORATORY EXPERIENCE 1 hr.

If not already included with a course in A, B, or C above.
BIOL 110 Elements of Biology Laboratory 1
(BIOL 109)
CHEM 131 General Chemistry Laboratory 1
(CHEM 111)
PHYS 113 Elements of General Physics Laboratory 1
(PHYS 111)
PHYS 114 Elements of General Physics Laboratory 1
(PHYS 112)

V. COMPLETION OF CORE 6-7 hrs.

Select a course from two of the following 3 areas.

A. COMMUNICATIONS/LANGUAGES 3 hrs.

FREN 111 or 112 Elementary French 3
GRMN 111 or 112 Elementary German 3
SPCH 131 Public Speaking 3
SPCH 231 Oral Interpretation of Literature 3

B. SOCIAL SCIENCE — PROBLEMS ELECTIVES 3 hrs.

ECON 204 Principles of Microeconomics II 3
GEOG 241 Geography of Appalachia 3
HIST 233 History of Appalachia 3
PLSC 231 International Politics 3
SOCI 241 Sociology of Appalachia 3
SOCI 251 Current Socio-Economic Problems 3
SOCI 271 Marriage and the Family 3

C. NATURAL SCIENCE 3-4 hrs.

Select a course from the Natural Science Division that is in a discipline (Biology, Chemistry, Environmental Studies, Physics) not already used to satisfy Section IV.

Students are expected to complete this core during their Freshman-Sophomore years. Some majors require specific courses. Consult your advisor.

ACADEMIC DIVISIONS

DIVISION OF APPLIED SCIENCES

Larry Inkster, *Chairperson*
Department of Business Department of Education
Department of Health & Physical Education
Military Science (ROTC Program)

I. DEPARTMENT OF BUSINESS

Paula J. Allen, *Department Head*
Accounting — Business Administration — Business Education
Computer Information Systems — Economics — Marketing — Office Administration

BACHELOR OF SCIENCE DEGREES IN BUSINESS

In addition to the general college requirements, all candidates for the Bachelor's degree mu complete the following courses in one of the major fields listed below. Students with a major minor in Business must have a 2.0 average for all courses in each major or minor. (Students w choose to complete the foreign language requirement may elect to receive a Bachelor of Arts degre

Common Courses Required of All Candidates		*Semester Ho*
ACTG 271, 272	Principles of Accounting I & II	6
BUAD 310	The Legal Environment of Business	3
BUAD 351	Principles of Finance	3
BUAD 352	Principles of Management	3
COMP 211	Introduction to Business Information Systems	3
ECON 203	Principles of Macroeconomics I	3
ECON 204	Principles of Microeconomics II	3
MKTG 321	Principles of Marketing	3
		27

and, as applicable:

Accounting Major		*Semester Ho*
ACTG 331	Cost Accounting	3
ACTG 371, 372	Intermediate Accounting I & II	6
ACTG 376	Tax Accounting	3
ACTG 431	Accounting Information Systems	3
ACTG 433	Auditing	3
ACTG 471, 472	Advanced Accounting I & II	6
COMP 241	Advanced Microcomputer Applications in Business	3
OFAD 302	Business Communications	3
	Accounting Electives (300 level or above)	3
		33

Business Administration Major		*Semester Ho*
BHSC 245	Basic Statistics: Theory and Application	3
BUAD 372	Personnel Management	3
BUAD 451	Business Policy	3
COMP 241	Advanced Microcomputer Applications in Business	3
OFAD 302	Business Communications	3
	Electives from the Department of Business (200 level and above)	12
		27

Computer Information Systems Major		Semester Hours
*BHSC 245 or	Basic Statistics: Theory and Application	3
*MATH 108 or	Intermediate Algebra	3
*MATH 131	College Algebra	3
*BHSC 245 if not used	to satisfy Liberal Education Core, otherwise MATH 108 or 131.	
COMP 221, 222	Business Application Programming I and II	6
COMP 331 or	Structured Systems Analysis and Design	3
COMP 332	Object Oriented Analysis and Design	3
COMP 441	Databases	3
COMP 455	Applied Software Development Project	3
COMP 251 or	C Programming	3
COMP 241	Advanced Microcomputer Applications in Business	
	Computer Elective (300 or 400 level)	6
OFAD 302	Business Communications	3
		30

Office Administration Major		Semester Hours
BUAD 372	Personnel Management	3
COMP 241	Advanced Microcomputer Applications in Business	3
OFAD 222	Intermediate Keyboarding Applications	3
OFAD 262	Word Processing	3
OFAD 301	Business English: Theory and Applications	3
OFAD 302	Business Communications	3
OFAD 431	Office Systems	4
	Elective from the Department of Business (200 level or above)	3
	Elective from the Department of Business (300 level or above)	3
		28

Business and Music Major		Semester Hours
MKTG 272	Personal Selling	3
MUSC 161, 162	Foundations of Music	8
MUSC 261, 262	Harmony	6
MUSC 111-412	Applied Music	8
MUSC 322	Music History	3
MUSC 171, 172, 173, 175, 176	String, Woodwind, Piano, Brass and Percussion Classes (Choice of any 3)	3
OFAD 302	Business Communications	3
	Elective from the Department of Business (300 level or above)	3
	Field Placement	3-10
		40-47

BACHELOR OF SCIENCE DEGREE IN BUSINESS EDUCATION

Students should see the Education Department section for Certification Requirements.

The Comprehensive Business major will certify teachers to teach business courses in grades 5 through 12.

Teaching Major in Comprehensive Business		Semester Hours
ACTG 271, 272	Principles of Accounting I & II	6
BUAD 151	Introduction to Business	3
BUAD 310	The Legal Environment of Business	3
BUAD 352	Principles of Management	3
BUED 462	Methods of Teaching Comprehensive Business Subjects	4
COMP 211	Introduction to Business Information Systems	3
COMP 241	Advanced Microcomputer Applications in Business	3
ECON 203 or	Principles of Macroeconomics I	3
ECON 204	Principles of Microeconomics II	
EDUC 370	Curriculum Development of the Middle Grades	3
OFAD 222	Intermediate Keyboarding Applications	3
OFAD 262	Word Processing	3
OFAD 302	Business Communications	3
OFAD 431	Office Systems	4
		44

ENDORSEMENT FOR ADVANCED DATA PROCESSING

Students must complete all requirements for a major in Comprehensive Business and a total c nine semester hours of 200 level or above computer information systems courses, including at leas three hours in a programming language.

ENDORSEMENT FOR SHORTHAND

Students must complete all requirements for a major in Comprehensive Business and six semeste hours in shorthand.

ASSOCIATE OF APPLIED SCIENCE DEGREES IN BUSINESS

The following two-year programs lead to the award of the A.A.S. degrees in the emphasis indi cated.

Common Courses Required of All Candidates		*Semester Hour*
ACTG 271	Principles of Accounting I	3
BUED 105	Mathematics Applied to Business	2
COMP 141	Introduction to Microcomputers and Applications	3
COMP 211	Introduction to Business Information Systems	3
ECON 203	Principles of Macroeconomics I	3
ENGL 111	Freshman Composition I	3
ENGL 112	Freshman Composition and Literature	3
OFAD 302	Business Communications	3
	Humanities General Requirement	3
	Natural Science General Requirement	3
	Social Science General Requirement	3
		33

and, as applicable:

Accounting Emphasis (AAS)		*Semester Hours*
ACTG 272	Principles of Accounting II	3
BUAD 310	The Legal Environment of Business	3
COMP 241	Advanced Microcomputer Applications in Business	3
ECON 204	Principles of Microeconomics II	3
	Accounting Electives (300 level or above)	12
	Non-Business Electives	6
		30

Business Administration Emphasis (AAS)		*Semester Hours*
ACTG 272	Principles of Accounting II	3
BUAD 310	The Legal Environment of Business	3
BUAD 352	Principles of Management	3
COMP 241	Advanced Microcomputer Applications in Business	3
ECON 204	Principles of Microeconomics II	3
	Electives from the Department of Business (200 level or above)	3
	Non-Business Electives	6
		30

Computer Information Systems Emphasis (AAS)		*Semester Hours*
ACTG 272	Principles of Accounting II	3
BHSC 245	Basic Statistics: Theory and Application	3
COMP 221, 222	Business Application Programming I and II	3
COMP 241	Advanced Microcomputer Applications in Business	3
COMP 331	Structured Systems Analysis and Design	3
ECON 204	Principles of Microeconomics II	3
MATH 108, 111 or 241	Mathematics Course	3 or 4
	Computer Elective (300 or 400 level)	3
	Non-Business Electives	6
		33-34

)ffice Administration Emphasis (AAS)		*Semester Hours*
.CTG 272	Principles of Accounting II	3
UAD 352	Principles of Management	3
:OMP 241	Advanced Microcomputer Applications in Business	3
)FAD 222	Intermediate Keyboarding Applications	6
)FAD 262	Word Processing	3
)FAD 301	Business English: Theory and Applications	3
)FAD 431	Office Systems	4
	Non-Business Electives	6
		28

MINORS AVAILABLE TO ALL STUDENTS

Accounting — Twenty-one semester hours in Accounting at 200 level and above.

Business Administration — Accounting 271-272, Business Administration 310 and 352, Computer nformation Systems 211, Economics 203, and three hours of Business electives (200 level or above).

Computer Information Systems — Twenty-one semester hours consisting of the following: Com-)uter Information Systems 211, 221, 241, 331 and at least nine additional hours in Computer Infor- nation Systems courses numbered 200 or above (at least three of these hours must be numbered 300 or above).

Economics — Twenty-one semester hours consisting of the following: Economics 203, 204, Be- navioral Sciences 245 or Mathematics 372, Computer Information Systems 141 or 241 or Mathematics 241, and three courses from the following list, only one of which may be below 300 level: Economics 252, 354, 363, 488, or History 241.

Marketing — Twenty-one semester hours consisting of the following: Marketing 272, 321, 370, and 421, Computer Information Systems 241, and Economics 203 and 204.

Office Administration — Twenty-two semester hours including Office Administration 222, 262, 301, 431, Business Administration 352, and at least six additional hours in Office Administration courses numbered 200 or above.

ACCOUNTING

Accounting 170. The Accounting Cycle. (S)(3)
This course is designed for students who have not studied accounting in high school or who need basic remedial studies in accounting. Subjects covered include journalizing, posting, worksheets, adjusting and closing entries. No prerequisites.

Accounting 271. Principles of Accounting I. (F)(3)
Discussion of the concept of double-entry accounting. Introduction to the basic procedures in the accounting cycle, receivables, payables, inventories and other systems.

Accounting 272. Principles of Accounting II. (S)(3)
A continuation of Accounting 271, this course covers accounting procedures relative to partnerships, corporations, budgets, costing and financial report generation. *Prerequisite:* Accounting 271.

Accounting 331. Cost Accounting. (F)(3)
Special topics in job order and process cost for materials, labor, and overhead with variable and fixed portions. Budgeting and variances from budget are also covered. *Prerequisite:* Accounting 272.

Accounting 371. Intermediate Accounting I. (F)(3)
Accounting topics include the income statement, balance sheet and change in owners' equity statements. Cash, receivables, inventories, plant, investments and intangible assets are also covered. *Prerequisite:* Accounting 272.

Accounting 372. Intermediate Accounting II. (S)(3)
Continuation of Accounting 371 covering current liabilities, contingent liabilities, long-term liabilities, accounting for income taxes, and owners' equity. Statement of Change in Financial Position, financial statement analysis and the impact of changing prices are also covered. *Prerequisite:* Accounting 371.

Accounting 376. Tax Accounting. (S)(3
Problems of federal taxes for individuals, partnerships, and corporations are reviewed in depth. *Prerequisite:* Accounting 272.

Accounting 430. Accounting Theory. (F)(3
Covers current accounting literature, including publications of the American Institute of Certified Public Accountants (AICPA), the Financial Accounting Standards Board (FASB), and the Securities and Exchange Commission (SEC). *Prerequisite:* Accounting 372.

Accounting 431. Accounting Information Systems. (F)(3
This course studies the principles and problems of accounting system design and installation, organization for accounting control, internal control procedures, and internal reports. *Prerequisites:* Accounting 331 and 372.

Accounting 433. Auditing. (S)(3
Topics covered include discussion of the ethics and liability of the auditor, verification, analysis, interpretation of accounting records, issuance of audit reports and other reports by CPA's. *Prerequisite:* Accounting 372.

Accounting 471. Advanced Accounting I. (F)(3
Advanced in-depth discussion of accounting for joint ventures, consolidated statements, inter-company transactions, partnerships. *Prerequisite:* Accounting 372.

Accounting 472. Advanced Accounting II. (S)(3
Continuation of Accounting 471 covering multi-national accounting, interim and segmental reporting, governmental and not-for-profit accounting, and insolvency. *Prerequisite:* Accounting 471.

Accounting 488. Business Seminar. (on demand)(3
An advanced course of selected topics of interest in the field of Accounting. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses.

BUSINESS ADMINISTRATION

Business Administration 151. Introduction to Business. (F)(3)
Forms of business ownership, marketing, personnel management, finance, and government regulations are discussed in an overview of organizations.

Business Administration 310. The Legal Environment of Business. (F,S)(3)
An overview of traditional legal environment topics such as judicial reasoning, administrative law, anti-trust law, contracts, torts, agencies, bailment, real and personal property, leases, and bankruptcy.

Business Administration 351. Principles of Finance. (F)(3)
The principal objective of this course is to introduce managerial finance as a functional area of business, including financial analysis, working capital practices, capital budgeting, corporate valuation, cost of capital and capital structure. *Prerequisite:* Accounting 271.

Business Administration 352. Principles of Management. (F)(3)
This course introduces students to the development of organization plans and policies, as well as providing an exposure to basic theoretical developments in management thought over the last one hundred years. Particular attention will be given to the topics of organizational design, control, quantitative techniques of management operations and theories of leadership.

Business Administration 372. Personnel Management. (S)(3)
Using a system-process model, this course discusses the various subsystems (recruitment, selection, compensation, task specification, etc.) which fall under the responsibility of the personnel management function. The subsystems are designed to provide for the efficient and effective utilization of human resources in business concerns. Although an understanding of management in general is helpful, Business Administration 352 is not a prerequisite, but strongly suggested.

Business Administration 440. Business Ethics. (F)(3)
Sensitizes students to the ethical implications of business activity and provides a theoretical framework within which responsible decisions can be made. The course relates the ethical considerations and legal principles to the corporations's responsibility to society. (May be used as an Accounting elective.)

Business Administration 451. Business Policy. (S)(3)
This course serves as a "capstone course" which attempts to bring together knowledge acquired in all of the functional areas of business (management, marketing, finance, accounting, etc.) in a case analysis situation. A strategic decision-making model will be presented as the basis for the alternative courses of action, and the implementation of the strategy chosen. *Prerequisites:* Senior status in the Business Administration program and the successful completion of Accounting 272, Business Administration 351, 352, and 372, and Marketing 321.

Business Administration 488. Business Seminar. (on demand)(3)
An advanced course of selected topics of interest in the field of Business Administration. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses.

BUSINESS EDUCATION

Business Education 105. Mathematics Applied to Business. (F)(2)
The application of basic mathematics to business operations including: Markups, markdowns, interest and discounts, bank reconciliation and graphing.

Business Education 361. Methods of Teaching Secretarial Business Subjects. (on demand)(3)
A study of basic dimensions of methods, materials, and objectives in teaching secretarial subjects in the secondary school. Discussion includes teaching strategies such as questioning, lecturing, problem-solving, constructing lesson plans, constructing valid and reliable tests, interpreting test scores, and presenting lectures on video tapes. *Prerequisites:* Admission to Teacher Education Program, Office Administration 222 and Junior standing. Students must have at least twelve hours from the Union College Department of Business. Transfer students must have permission of the instructor to take this course. This course meets requirements for persons enrolled in the Business Education Secretarial Skills major prior to Fall 1991.

Business Education 462. Methods of Teaching Comprehensive Business Subjects. (F)(4)
A study of the methods, materials, and objectives in teaching comprehensive business subjects in the middle and secondary school. Discussion includes teaching strategies such as questioning, lecturing, problem-solving, constructing lesson objectives, constructing valid and reliable tests, interpreting test scores, and presenting lectures on video tape. *Prerequisites:* Admission to Teacher Education Program and Junior standing. Students must have at least twelve hours from the Union College Department of Business. Transfer students must have permission of the instructor to take this course.

Business Education 488. Business Seminar. (on demand)(3)
An advanced course of selected topics of interest in the field of Business Education. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses.

COMPUTER INFORMATION SYSTEMS

Computer Information Systems 121. BASIC Programming. (F)(3)
A study of the BASIC programming language including problem definition, flowcharting, and solving problems that are adaptable to business and/or science applications. Laboratory work designed to illustrate the basic principles of structured programming in BASIC will provide hands-on experience on microcomputers. *Prerequisites:* Business Education 105 or any Mathematics course numbered 108 or above.

Computer Information Systems 141. Introduction to Microcomputers and Applications. (F,S)(3)
A preliminary examination and evaluation of microcomputers and major applications, including the disk operating system, word processing, electronic spreadsheets, and database management.

Computer Information Systems 211. Introduction to Business Information Systems. (F,S)(3)
An introduction to information systems from a business perspective. Emphasis is placed on problem-solving skills, group dynamics, critical thinking, and the technological tools available to help solve today's business problems. The students will follow the information system development process through conception, design, and implementation. *Prerequisites:* Successful completion of Computer Information Systems 141 with a grade of "C" or better.

Computer Information Systems 221. Business Application Programming I. (F)(3
A study of the fundamental principles of algorithm development and structured computer prc gramming used in solving business information systems problems, including an introduction t design and implementation documentation used by industry. Major topics include control struc tures, elementary data structures, program design techniques, and sequential files. A subset c COBOL is used as the programming language. *Prerequisites:* Computer Information Systems 21 and one of the following: Mathematics 108 or 111 or Accounting 271.

Computer Information Systems 222. Business Application Programming II. (S)(3
A continuation of Business Application Programming I. A study of systems of programs and th techniques for their design and development. Major topics include modular design of algorithms uses of bulk storage devices, random files, master-file maintenance systems, advanced repoı writing and business algorithms, dynamic data structures, and subprograms. *Prerequisite:* Com puter Information Systems 221.

Computer Information Systems 241. Advanced Microcomputer Applications in Business. (F,S)(3
An advanced examination of applications available for microcomputers. Topics include the dis operating system, word processing, electronic spreadsheets, database management, graphics, elec tronic accounting, electronic presentations applications, and other applications, which will chang as demands warrant. An assessment of the information needs of today's business executive an the role these applications play in meeting those information needs will be examined. *Prerequisite* Successful completion of Computer Information Systems 141 with a grade of "C" or better. *Pre or co-requisite:* Accounting 271.

Computer Information Systems 250. Scientific Programming. (F)(3
A study of the fundamental principals of algorithm development and structured programmin used to solve problems from the areas of mathematics, the physical sciences, and engineering including an introduction to design and implementation documentation. Major topics are debug ging, control structures, and elementary data structures. *Prerequisites:* Any programming languag or Mathematics 241.

Computer Information Systems 251. C Programming. (S)(3
A study of C programming language including problem definition, flowcharting, and the solutioı of problems that are adaptable to business applications. *Prerequisites:* Computer Information Sys tems 211 and one of the following: Mathematics 110 or 131 or Accounting 271.

Computer Information Systems 310. Introduction to Computer Architecture. (S)(3
A study of the fundamental concepts and terminology of computer architecture (including assem bly languages) with emphasis on the relationships among hardware, architecture, systems soft ware, and applications software. *Prerequisite:* Computer Information Systems 221 or 250. (Eveı years only.)

Computer Information Systems 315. Operating Systems. (S)(3
Survey of the major components of operating systems, comparing and contrasting various system including batch, time sharing, and microcomputer systems. *Prerequisite:* Computer Informatioı Systems 221 or 250. (Odd years only.)

Computer Information Systems 331. Structured System Analysis and Design. (F)(3
A study of the system development life cycle emphasizing documentation and communicatioı aids, interpersonal approaches and techniques used in the analysis and design of new system for a given problem. Students are expected to be familiar with basic writing skills and applicatioı packages. *Prerequisites:* (Computer Information Systems 221 and Accounting 271) or (Compute Information Systems 250 and Chemistry 131 or Physics 213).

Computer Information Systems 332. Object Oriented Analysis and Design. (F)(3
A study of the object-oriented approach to system development emphasizing documentation anc communication aid, interpersonal approaches and techniques used in the analysis and design o new systems for a given problem. Students are expected to be familiar with basic writing skill and application packages. *Prerequisites:* (Computer Information Systems 221 and Accounting 271 or (Computer Information Systems 250 and Chemistry 131 or Physics 213). (Odd years only.)

Computer Information Systems 421. Software Engineering. (S)(3
A study of the management and technical tools, procedures, and concepts used in creating soft ware systems for specific application. Students will design and implement a software system *Prerequisites:* Computer Information Systems 331 or 332. (Even years only.)

Computer Information Systems 441. Databases. (S)(3)
A study of software design in a data base environment, of data base systems, and of data base programming. A variety of hierarchical, network and relational data bases are studied. *Prerequisite:* Computer Information Systems 332. (Odd years only.)

Computer Information Systems 455. Applied Software Development Project. (S)(3)
A study of application system development and project management. Students will design and implement a comprehensive system to solve a complex case study. *Prerequisites:* Computer Information Systems 331 or 332.

Computer Information Systems 488. Business Seminar. (on demand)(3)
An advanced course of selected topics of interest in the field of Computer Information Systems. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses.

ECONOMICS

Economics 203. Principles of Macroeconomics I. (F)(3)
The primary objective of this course is to introduce the student to macroeconomic theory including a study of the economizing problem, pure and mixed capitalism, demand and supply, the economic functions of government, national income accounting, the business cycle, employment theory, money and banking, and fiscal policy.

Economics 204. Principles of Microeconomics II. (S)(3)
The primary objective of this course is to introduce the student to microeconomic theory, including demand and supply analysis, elasticity, the production function, price and output determination, costs of production, pricing and employment of resources, and market structures.

Economics 251. Environmental Economics. (F)(3)
Societal choice in the use of scarce resources is related to ecosystem survival, environmental quality, and human welfare. (Odd years only.)

Economics 354. Managerial Economics. (F)(3)
This course is designed to illustrate how business managers can utilize knowledge of economic principles to help make managerial decisions. Topics covered will include: market demand, empirical estimation of demand and/or supply, production and costs, decisions under uncertainty, organizational decisions and production decisions. *Prerequisites:* Economics 204 and Behavioral Science 245. (Even years only.)

Economics 363. Money and Banking. (S)(3)
Objectives of this course include introducing the student to the development of the commercial banking system, the Federal Reserve System, and further exploration of fiscal and monetary policy. *Prerequisite:* Economics 203. (Even years only.)

Economics 488. Business Seminar. (S)(3)
An advanced course of selected topics of interest in the field of Economics. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses. Note: More than one, with different titles, may be used to meet Economics minor requirements. (Even years only.)

Additional courses listed under: Behavioral Sciences 245 and History 241.

MARKETING

Marketing 272. Personal Selling. (F)(3)
The interpretation of sales techniques and methods, prospecting customers, interviews, sales presentations, demonstrations, and closing the sale are presented. (Formerly Business Administration 272)

Marketing 321. Principles of Marketing. (S)(3)
Study of the movement of goods from producer to consumer and an examination of the functions of the marketing process, marketing institutions, channels of distribution, legal aspects, and policy considerations. (Formerly Business Administration 321)

Marketing 370. Advertising. (F)(3
An overview of the social, economic, and marketing environment in which advertising functions This course will provide an in-depth coverage of advertising activities as they relate to consumer driven mass media marketing activities. The course will focus on advertising planning and management as well as media strategies available to organizations. Although an understanding o marketing in general is helpful, Marketing 321 is not a prerequisite. (Formerly Business Administration 370)

Marketing 421. Business Logisitics. (F)(3
This course is a study of the broad field of logistics. A major emphasis will be the regulator environments of each of the major modes of transport: rail, motor, water, air, and pipeline. Emphasis will be placed on the crucial nature of distribution and handling of materials in domesti and international markets. A systems approach to transportation, warehousing, material handling packaging, etc. will be followed. Although an understanding of Marketing in general is helpful Marketing 321 is not a prerequisite. (Formerly Business Administration 421)

Marketing 488. Business Seminar. (on demand)(3
An advanced course of selected topics of interest in the field of Marketing. *Prerequisites:* Busines major/minor with Junior or Senior standing and twenty-one credit hours in business courses.

OFFICE ADMINISTRATION

Office Administration 111. Elementary Keyboarding. (on demand)(3
A first course in keyboarding/typewriting for the secretarial student. Also for those needing on course in typing for personal use. Keyboard and fundamental processes are presented. Student presenting one or more units of high school keyboarding/typewriting may not take this course.

Office Administration 121. Elementary Shorthand. (on demand)(F)(3
Principles of Gregg Shorthand, Series 90. Places emphasis on theory and developing reading anc writing skills. Letter transcription introduced. Students presenting one or more units of high schoo shorthand may not take this class. Laboratory required.

Office Administration 122. Intermediate Shorthand. (on demand)(S)(3
Greater emphasis placed on writing and transcribing with speed and accuracy. Gregg theory anc basic typewriting concepts reviewed. *Prerequisite:* Office Administration 222 with a grade of a least a "C" or the equivalent.

Office Administration 221. Dictation and Transcription. (on demand)(3
Emphasis placed on speed in taking dictation and in transcription skills. *Prerequisite:* Office Admin istration 222 with a grade of at least "C" or the equivalent.

Office Administration 222. Intermediate Keyboarding Applications. (F)(3
Emphasis is placed upon techniques, speed, and accuracy.

Office Administration 262. Word Processing. (S)(3
This course is to strengthen students' use of computer software for performing tasks in a com puterized office environment. Emphasis is placed on generating reports and documents used ir different offices, such as: sales, accounting, legal, medical, government, and other technical offices *Prerequisite:* Computer Information Systems 241.

Office Administration 301. Business English: Theory and Applications. (F)(3
Comprehensive review of grammar and usage. Emphasizes and reinforces business application and vocabulary in areas such as business law, word processing, merchandising management, anc computer information systems. *Prerequisite:* English 111 with a grade of at least "C".

Office Administration 302. Business Communications. (S)(3
Realistic methods of mastering writing skills needed in business situations. Emphasizes instructior in both the basic and advanced techniques of preparing and organizing business letters, memo randa, and reports. Also enhances speaking, reading and listening skills. *Prerequisite:* English 11 or Office Administration 301.

Office Administration 431. Office Systems. (S)(4
Emphasis is placed on an information systems approach of office proficiency, records management internal and external office communications, information processing and administrative suppor services. Laboratory required. *Prerequisite:* Office Administration 222.

Office Administration 488. Business Seminar. (on demand)(3
An advanced course of selected topics of interest in the field of Office Administration. *Prerequisites* Business major/minor with Junior or Senior standing and twenty-one credit hours in busines courses.

II. DEPARTMENT OF EDUCATION

Kenneth J. Henry, *Department Head*
Early Elementary Education — Middle Grades Education — Secondary Education

The undergraduate programs in the Department of Education have as their primary objective the :eparation of superior teachers for public and private schools.

At Union College the education of prospective teachers is the responsibility of the College as a hole, not the Department of Education alone.

The teacher education programs described in the following pages prepare the student to receive baccalaureate degree and, upon recommendation of the College, a Kentucky teacher's certificate. student who wishes to teach in a state other than Kentucky should determine certification re-iirements in that state (usually quite similar to Kentucky's), and plan his program accordingly. formation on certification requirements in other states is available in the Registrar's Office and in e Career Planning and Placement Office.

Students preparing for teacher certification must be admitted to the Teacher Education Program the College before they will be allowed to register for any of the professional education courses her than Education 241, 242 and 351. Students intending to pursue education certification are ged to consult with faculty in the area of their academic emphasis, or academic major for advice schedules and sequencing of courses.

Graduates may continue their professional preparation by entering the Graduate Studies Program. separate catalog is available from the Dean of Graduate Academic Affairs.

Goals of the Teacher Education Program

The Teacher Education Program at Union College seeks to ensure the realization of the following itcomes by each student:

1. Professional Knowledge
   - develops a historical perspective of the development of American schooling
   - understands human growth and development
   - possesses knowledge of educational psychology/theories of learning
   - understands various instructional theories
   - has knowledge of special needs populations
   - understands the professional/ethical role of the teacher
   - develops a personal teaching philosophy
2. Professional Abilities
   - identifies and utilizes research to facilitate teaching
   - plans instruction
   - implements instruction
   - evaluates instruction
   - stimulates student learning
   - manages classroom effectively
   - maintains positive relations with students
   - maintains classroom discipline
   - maintains positive relations with colleagues, parents, and community
3. Professional Traits
   - practices appropriate personal/professional behavior
   - receptive to change/new ideas
   - willing to take risks/learns from successes and failures
   - strives for high levels of achievement
   - assumes multiple professional roles
   - seeks opportunities for professional growth
   - attends to special needs populations
   - values cultural diversity

Requirements for Admission to Teacher Education Program

Students who wish to enter teacher education must prepare a folder for presentation to th Teacher Education Committee for approval. The folder must be complete before the student i admitted to the program and must contain the following:

1. Application to the program and an acceptably written essay (2-3 pages) on "Why I want to b a teacher".
2. Documentation to show a minimum composite score on the enhanced ACT of 21 and compl tion of an essay test. Candidates who do not reach the minimum ACT score may be admitte on the basis of the established minimum score on each of the subtests of the CTBS. Studen who present evidence of successful completion of CTBS tests taken at other institutions ma be accepted.
3. Four recommendations from instructors submitted prior to Teacher Education Interview.
4. Documentation to show that the student has passed a Teacher Education Interview whic evaluates the student's ability to communicate orally.
5. Documentation to show that the student has completed a minimum of thirty hours with a grad point average of 2.5 or better.
6. Documentation to show that the student has completed English 111 and 112 with a grade "C" or better in both courses.
7. Documentation to show that the student has completed (with a grade of "C" or better) Intr duction to Education and Early Involvement at the time of application.

Students who have failed to pass one competency test, or lack one recommendation, or tho who are currently enrolled in but have not yet completed Introduction to Education, Early Involv ment, and English 112 may be admitted conditionally to the program if all other requirements ha been met. Students may retake any CTBS subtest(s) but must complete mandatory tutoring at t Learning Lab before re-taking the subtest(s).

Requirements for Admission to Student Teaching

1. Successful validation of writing proficiency.
2. Formal written application by mid-term of the semester preceding the planned student teachin Application forms may be obtained in the Department of Education office.
3. Senior standing is a prerequisite for admission to student teaching.
4. Completion of at least 90 semester hours of credit with at least a 2.5 grade point average in courses attempted and a 2.5 GPA in all work attempted in the area, major, or minor fields f which certification is sought.
5. Completion of three-fourths of all required professional education courses with an academ standing of at least 2.5.
6. Completion of three-fourths of all coursework for the teaching major or area of concentrati if student teaching is to be done in this specialization; or completion of all the coursework f the teaching minor if student teaching is to be done in the minor area.
7. Approval of the department in which teaching fields are sought.
8. Moral, social, and ethical behavior acceptable in the school community as well as in the co munity at large.
9. A valid and current medical examination which includes a tuberculosis test filed with t Teacher Education Committee.
10. Maintenance of good standing since admission to the Teacher Education Program.
11. Completion of institutional prerequisites with respect to time in residence and pre-stude teaching laboratory and field experiences.
12. Acceptance by the Teacher Education Committee of the College.
13. No professional education course with a grade below "C" will be accepted.

EARLY ELEMENTARY EDUCATION CURRICULUM

Early Elementary Education (K-4) majors need at least three semester hours each of a Biological ıd a Physical Science; each must include a lab. Education majors must have a 2.5 overall grade ɔint average for admittance to the program; a 2.5 overall grade point average, and a 2.5 grade point ɔerage in the professional education courses for admittance to Student Teaching. Appropriate NTE st(s) must be successfully completed for certification.

I. Preprofessional Courses for Students Preparing to Teach Early Elementary Education (K-4). Preprofessional courses may not be taken by Independent Study.

A. Anthropology 221 or Anthropology 251 or Political Science 231 ..... 3 semester hours

B. Art 271 — Elementary School Art ..... 3 semester hours

C. Computer Information Systems 141 — Introduction to Microcomputers and Applications ..... 3 semester hours

D. English 355 — Children's and Adolescent Literature ..... 3 semester hours

E. Mathematics 203 and 204 — Structure of the Number System ..... 6 semester hours

F. Music 373 — Elementary School Music ..... 3 semester hours

G. Physical Education 261 — Physical Education in the Elementary School ..... 3 semester hours

H. Physical Education Service Course ..... 1 semester hour

I. Psychology 111 — Introduction to Psychology ..... 3 semester hours

J. Sociology 241 or Geography 241 or History 233 ..... 3 semester hours

K. Speech 131 — Public Speaking ..... 3 semester hours

II. Professional Preparation for Early Elementary Teachers (K-4). These requirements may not be satisfied by CLEP, Independent Study or the Pass/Fail option. A grade point average of 2.5 is required and no grade below a "C" is acceptable.

A. Education 241 — Introduction to Education ..... 3 semester hours

B. Education 242 — Early Involvement Internship ..... 3 semester hours

C. Education 341 — Methods of Teaching Mathematics in the Elementary School ..... 3 semester hours
(Prerequisites: Mathematics 203 and 204)

D. Education 342 — Teaching Science in the Elementary Grades ..... 3 semester hours

E. Education 351 — Human Growth and Development ..... 3 semester hours
(Prerequisite: Psychology 111)

F. Education 361 — Reading in the Primary Grades ..... 3 semester hours

G. Education 362 — Teaching Reading in the Content Subjects ..... 3 semester hours
(Prerequisite: Education 361 or permission of the instructor)

H. Education 432 — Methods and Materials in the Elementary School ... 4 semester hours

I. Education 433 — Supervised Student Teaching in the Elementary School ..... 12 semester hours
(180 hours in one grade level and 180 hours in a non-consecutive grade level)

J. Education 441 — Elementary School Social Studies ..... 3 semester hours

K. Education 460 — Learning Theories for Educators ..... 3 semester hours
(Prerequisite: Psychology 111)

L. Education 488 — Professional Interaction in the Schools ..... 3 semester hours

M. Special Education 365 — Foundations of Education of the Exceptional Child ..... 3 semester hours
(Prerequisite: Psychology 111)

See Requirements for Admission to Student Teaching

III. Academic Emphasis

The academic emphasis component must include twenty-one semester hours in one of the following six options.

A. ENGLISH/COMMUNICATIONS:
English 111, 112, 212, 221 or 222 or 231 or 232, 355 and 401 or 421; Speech 131

B. FINE ARTS/HUMANITIES:
Art 271, 273, Music 373, two of the following: Art 132, Drama 131 and Music 121; or elective in Religion or Music numbered 300 or above (3 hrs); and Religion 111 or 112 (231

C. FOREIGN LANGUAGE:
German 111, 112, 211, 212, 331, 495, Independent Study (6 hrs); OR French 111, 112, 21 212, 331 and 495 Independent Study (6 hrs)

D. MATHEMATICS STUDIES:
Mathematics 131, 203, 204, 211, 301, Computer Information Systems 121, one elective i Mathematics (3 hrs)

E. SCIENCES:
Biology 111, 232 or 233 or 330 or 331, General Science 471, Environmental Studies 35 Physics 105, 111 and 113 or 112 and 114 or Chemistry 111 and 131

F. SOCIAL AND BEHAVIORAL SCIENCES:
Geography 101, Economics 203 or 204, Political Science 101 or 231, History 201 or 20 Anthropology 221 or Sociology 131; and two electives numbered 200 or above in Histo or Sociology or Psychology (not to include Psychology 361)

MIDDLE GRADES EDUCATION CURRICULUM

Middle Grade Majors (5-8) need at least three hours each of a Biological and a Physical Scienc one must include a lab. Education majors must have a 2.5 overall grade point average for admittan to the program; a 2.5 overall grade point average, and a 2.5 grade point average in the major f admittance to Student Teaching. Appropriate NTE test(s) must be successfully completed for cer fication.

I. Preprofessional Course Requirements for Students Preparing to Teach in the Middle Grad (5-8). No Preprofessional Course may be taken by Independent Study.

A. Health 270 — Personal and Community Health ..... 3 semester hou

B. Physical Education Service Course ..... 1 semester ho

C. Psychology 111 — Introduction to Psychology..... 3 semester hou

D. Sociology 241 or Geography 241 or History 233..... 3 semester hou

E. Speech 131 — Public Speaking..... 3 semester hou

II. Professional Preparation for Middle Grades Teachers (5-8)

These requirements may not be satisfied by CLEP, Independent Study or the Pass/Fail option. A grade point average of 2.5 is required, and no grade below a "C" is acceptable.

A. Education 241 — Introduction to Education..... 3 semester hou

B. Education 242 — Early Involvement Internship..... 3 semester hou

C. Education 361 — Reading in the Primary Grades ..... 3 semester hou

D. Education 362 — Teaching Reading in the Content Subjects ..... 3 semester hou (Prerequisite: Education 361)

E. Education 443 — Supervised Student Teaching in the Middle Grades ..... 12 semester hou

F. Education 460 — Learning Theories for Educators ..... 3 semester hou (Prerequisite: Psychology 111)

G. Education 488 — Professional Interaction in the Schools..... 3 semester hours

H. Special Education 365 — Foundations of Education of the Exceptional Child ..... 3 semester hours
(Prerequisite: Psychology 111)
See Requirements for Admission to Student Teaching

III. Specialization Component
These requirements may not be satisfied by CLEP, Independent Study or the Pass/Fail option. A grade point average of 2.5 is required, and no grade below a "C" is acceptable.

A. Education 352 — Human Growth and Development in the Middle Grades ..... 3 semester hours
(Prerequisite: Psychology 111)

B. Education 370 — Curriculum Development for the Middle Grades ..... 3 semester hours

C. Education 436 — Methods and Materials for the Middle Grades..... 4 semester hours
(Prerequisite: All 200-and 300-level courses listed under Professional Requirements and Professional Preparation)

See Requirements for Admission to Student Teaching

IV. Teaching Fields
(Each student will complete a minimum of 24 semester hours in two fields of study.)

A. ENGLISH AND COMMUNICATION:
English 111, 112, 231 or 232, 355, 401 or 421, 311 or 402, Speech 131, and one English Elective (3 hrs)

B. SCIENCE:
Biology 111, 233 or 321, and 232 or 330; Physics 111 and 113, or 211 and 213; Chemistry 111 and 131; Environmental Studies 110; One of the following sequence of courses: Physics 112, 114 and a Physics Elective (not to include Physics 105); Physics 212 and 214; Chemistry 112, 132, and a Chemistry Elective; or Physics 105 and Environmental Studies 350

C. SOCIAL STUDIES:
History 111, 112, 201, 202, Political Science 101 or 110, Geography 101, Economics 203 or 204, Sociology 131 or Anthropology 221

D. MATH OPTION I:
Mathematics 203, 204, 211, 241, 301, 331, Computer Information Systems 121, and one mathematics elective.

E. MATH OPTION II:
A minor in mathematics plus Mathematics 203 and 204.

SECONDARY EDUCATION CURRICULUM

Union College offers a variety of certification areas for secondary students. Certification for grades 2 includes the following:

A.	Areas of Concentration:	English, Mathematics-Physical Science, Science, and Social Studies
B.	Teaching Majors:	Biology, Chemistry, Comprehensive Business, English, History, History and Political Science, Mathematics, Physical Education, Physics, and Sociology
C.	Teaching Minors:	Biology, Chemistry, Drama, English, Health, History, Mathematics, Physics, Psychology, and Sociology

In order to be eligible for certification in a Teaching Minor, Secondary Majors must also be eligible certification in an Area of Concentration or a Teaching Major. See appropriate catalog listings academic requirements for each of the Areas of Concentration, Teaching Majors and Teaching nors. Secondary Majors (9-12) need at least three hours each of a Biological and a Physical Science; e must include a lab. Education majors must have a 2.5 overall grade point average for admittance

to the program; a 2.5 overall grade point average, and a 2.5 grade point average in the major f admittance to Student Teaching. Appropriate NTE test(s) must be successfully completed for cer fication.

I. Preprofessional Course Requirements for Students Preparing to Teach in the Secondary School (9-12). No Preprofessional Course may be taken by Independent Study.

A. Geography 241 or History 233 or Sociology 241 ..... 3 semester hou
B. Health 270 — Personal and Community Health ..... 3 semester hou
C. Physical Education Service Course ..... 1 semester ho
D. Psychology 111 — Introduction to Psychology ..... 3 semester hou
E. Speech 131 — Public Speaking ..... 3 semester hou

II. Professional Preparation for Secondary Teachers (9-12). These requirements may not be satisfied by CLEP, Independent Study or the Pass/Fail option. A grade point average of 2.5 is required and no grade below a "C" is acceptable.

A. Education 241 — Introduction to Education ..... 3 semester hou
B. Education 242 — Early Involvement Internship ..... 3 semester hou
C. Education 351 — Human Growth and Development ..... 3 semester hou
D. Education 452 — Methods and Materials in the Secondary School .... 4 semester hou
E. Education 453 — Supervised Student Teaching in the Secondary School ..... 12 semester hou
F. Education 460 — Learning Theories for Educators ..... 3 semester hou (*Prerequisite:* Psychology 111)
G. Education 488 — Professional Interaction in the Schools ..... 3 semester hou
H. Special Education 365 — Foundations of Education of the Exceptional Child ..... 3 semester hou (*Prerequisites:* Education 241 and 242)

See Requirements for Admission to Student Teaching.

ASSOCIATE OF APPLIED SCIENCE IN EDUCATION*

Credit Hou

English 111 and 112 — Freshman Composition 6
Natural Science (Environmental Studies 101 recommended) 4
Sociology 131 — Introduction to Sociology
or 3
Sociology 421 — Rural and Urban Sociology
Psychology 111 — Introduction to Psychology 3
Humanities Requirement (speech or theatre recommended) 3
Art 271 — Elementary School Art 3
Music 373 — Elementary School Music 3
Education 241 — Introduction to Education 3
Education 351 — Human Growth and Development 3
Education 440 — Early Childhood Education 3
English 355 — Children's and Adolescent Literature 3
Health 270 — Personal and Community Health 3
Sociology 371 — Social Institutions 3
Health 361 — Principles of Nutrition 3

ecial Education 365 — Foundations of Education of the Exceptional Child 3
ipervised Experience in Early Childhood Education..... 3
ectives — Recommended from Appalachian Semester,
Kentucky History, Typing, Recreational Leadership,..... 12
Arts & Crafts, & Structure of Number Systems

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ASSOCIATE OF APPLIED SCIENCE FOR GRADUATES OF STATE VOCATIONAL SCHOOLS

Union College offers a program at the associate degree level for students who have earned a ploma from a state vocational school. It is possible to earn up to twenty-four hours of credit toward associate degree.

	Credit Hours
iglish 111 — Freshman Composition I	3
iglish 112 — Freshman Composition and Literature	3
ychology 111 — Introduction to Psychology	3
eech 131 — Public Speaking	3
atural Science Core Requirement	4
cial Science Core Requirement	3
imanities Core Requirement	3
edit for Vocational Block	up to 24
edits toward specific degree goal	20

Designed for those who work in day care centers and agencies dealing with small children where acher certification is not required.

EDUCATION

lucation 241. Introduction to Education. (F,S)(3)
Explores the purposes, functions, and aims of education. Students are taken on an exploration of various topics including: teaching as a profession, historical and philosophical foundations of education, the theories and influences of great education thinkers, legal aspects of education, and the funding and structure of school programs.

lucation 242. Early Involvement Internship. (F,S)(3)
A practical course in which students are assigned to a local school classroom and meet periodically to discuss and generalize their experiences. Acquiring competence in the following: observation, diagnosis, instructional design and planning, use of media and new technology. To be taken concurrently with Education 241. A $15.00 fee is charged. (46 hours of field experience is required.

lucation 351. Human Growth and Development. (F,S)(3)
This course focuses on basic concepts from human development from conception to death. *Prerequisite:* Psychology 111.

dmission to the Teacher Education Program is a prerequisite for the following courses.

lucation 341. Methods of Teaching Mathematics in Elementary School. (F,S)(3)
Modern methods and materials for teaching mathematics in the elementary school. *Prerequisite:* Mathematics 203-204.

lucation 342. Teaching Science in the Elementary Grades. (F)(3)
The student will examine science curriculum materials and activities in terms of Piaget's developmental stages. Topics will be identified that could be taught using experimental, inquiry, or discovery methods. Lesson plans will be developed using each of the three methods and activities constructed.

lucation 352. Human Growth and Development in the Middle Grades. (S)(3)
This course focuses on the physical, intellectual, personal, social and moral development of children in fourth through the eighth grades, ages 10-13. Socializing influences such as families, peers, school and mass media will also be included.

Education 361. Reading in the Primary Grades. (F,S)
Basic principles, techniques, and materials for the teaching of reading in the primary grad emphasis on Methods and Materials which provide for developmental and differentiates instru tion. Includes observation, micro-teaching demonstrations, making of lesson plans, and evaluati of a child's readiness. (10 hours of field experience required.)

Education 362. Teaching Reading in the Content Subjects. (F,S)
Comprehension, study, and reference skills as they pertain to reading in the content subjec emphasis on language arts and the reading-writing relationship. *Prerequisite:* Education 361 (exce for English majors) or permission of the instructor.

Special Education 365. Foundations of Education of the Exceptional Child. (F,S)
Etiology and assessment of exceptional learning conditions; characteristics of exceptionalities; sp cial education intervention. *Prerequisite:* Psychology 111. (10 hours field experience).

Education 370. Curriculum Development for the Middle Grades. (F)
This course involves tracing the history of curriculum development in the United States, as w as identifying trends in the curriculum of the middle school. It will include curriculum desig middle school terminology and techniques, social and cultural forces, political forces, progran organization and evaluation.

Education 401. Introduction to Counseling and Guidance. (Sum)
Educational, sociological, and psychological foundations of counseling and guidance in schoo colleges, and related service-oriented agencies. Essential counseling and guidance services, po cies, practices and procedures. *Prerequisite:* Psychology 111.

Education 432. Methods and Materials in the Elementary School. (F,S)
Emphasis on language arts and methods in the early elementary classroom. (15 hours of fie experience required.)

Education 433. Supervised Student Teaching in the Elementary School. (F,S)(
Laboratory experiences in working with children, teachers, and others in school and communi Supervision by an experienced classroom teacher for a minimum of 12 weeks. Transportation a meals paid by the students. Application to be made one semester in advance. *Prerequisites:* S Requirements for Admission to Student Teaching. A supervisory fee of $100 is charged.

Education 436. Methods and Materials for the Middle Grades. (F)
This course focuses on instructional strategies and materials needed for releasing the potential the middle grade student leading from concrete to abstract learning. The course will inclu curriculum concepts and designs, innovative activities using hands-on-experiences, techniques writing lesson plans, the development of a unit of work, materials for journal writing, class de onstrations and evaluation. (15 hours of field experience required.)

Education 440. Early Childhood Education. (Sum)
Survey of the physical, emotional, mental, and psychological development of the child under and the role of the kindergarten teachers in working with such a child.

Education 441. Elementary School Social Studies. (F,S)
Methods and materials for the teaching of elementary school social studies, including kindergart through eighth grade curricula. The philosophies, terminology, and evaluation of methods a materials will be included.

Education 443. Supervised Student Teaching in the Middle Grades. (F,S)(
Laboratory experiences in working with children, teachers, and others in school and communi Supervision by an experienced classroom teacher for a minimum of 12 weeks. Transportation a meals paid by the students. Application to be made one semester in advance. *Prerequisites:* S Requirements for Admission to Student Teaching. A supervisory fee of $100 is charged.

Education 452. Methods and Materials in the Secondary School. (F,S)
Current teaching methods, materials, and innovations in the secondary school with directed servations. (25 hours field experience.)

Education 453. Supervised Student Teaching in the Secondary School. (F,S)(
Under the direction of an experienced teacher, the student directs the usual teaching activities the classroom for a minimum of 12 weeks. Application should be made one full semester advance of the time the teaching is to be done. *Prerequisite:* See Requirements for Admission Student Teaching. A supervisory fee of $100 is charged.

lucation 460. Learning Theories for Educators. (F,S)(3)
The major focus of this course is an exploration of how individuals learn, including specific learning theories and their relation to classroom teaching. *Prerequisite:* Admission to Teacher Education Program or registration through the Graduate Program.

lucation 468. Educational Media. (Sum)(3)
Practice in operating educational media and construction of classroom materials. Emphasis on educational television use in the classroom.

lucation 488. Professional Interaction in the Schools. (F,S)(3)
Discusses the role of the professional teacher including professional values, school community relations, school finance and programs of the school, legal aspects and human interaction in the schools from a variety of perspectives and theories. Addresses the role of classroom management in the learning process.

lucation 495. Independent Study. (F,S)(3)
Open only to advanced students in the field of Education who wish to do intensive reading in a specific interest area. *Prerequisite:* Twelve semester hours of Education and permission of the Head of the Department.

III. DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

Larry Inkster, *Department Head*
Athletic Training — Health — Physical Education — Sports Management

HEALTH

Students preparing to teach in Kentucky will receive both elementary and secondary certification fulfilling the requirements of this program.

Requirements for a Minor in Health Education: Twenty-one semester hours which must include ealth 131, 270, 311, 340, 361 or 461, and 475.

ealth 131. First Aid and Safety Education. (S)(3)
Designed to aid the student in developing an understanding of the basic principles of accident prevention as applicable to the home, the highway, and the school. First aid measures for various injuries and illnesses are discussed and practiced.

ealth 270. Personal and Community Health. (F)(3)
The relationship of bodily functions to personal health and grooming and to community and natural health.

ealth 311. Health Education —K-12. (S)(3)
The experiences, activities, and instruction of elementary and secondary students that lead to intelligent self-direction of health behavior.

ealth 320. General School and Community Safety. (S)(3)
The review of principles and practices in establishing and maintaining a healthful and safe environment in the school, gymnasium, and playground.

ealth 340. Physiology and Anatomy. (F)(3)
A study of cellular construction, tissues, organs, and systems of the human body. A study of the functions of these organs and systems as it deals with health and physical education discipline.

ealth 361. Principles of Nutrition. (F)(3)
A study of the composition, nutritive value, and utilization of food.

ealth 451. School and Community Health Workshop. (Sum)(3)
Reveals the relationship needed between the school and community to promote the total health of the population. Speakers are secured from official agencies, voluntary agencies, professional agencies, sponsored agencies, and other colleges. Small groups are utilized for discussion, field trips, and study through audio-visual aids.

ealth 461. Nutrition for Special Needs. (S)(3)
A course focusing on the nutrition needs through the life cycle, energy metabolism, and therapeutic applications of nutrition.

Health 475. Critical Areas in Health. (F,Sum)
Specific health problems confronting society today with particular reference to secondary a students.

Health 485. Field Experiences in Health. (F,Sum)(3
A directed field experience in some phase of health, with consideration given to both the ne and interests of the student. Opportunities will be available for practical experiences in the sch situation, official health agencies, and voluntary agencies.

Health 495. Independent Study. (F,Sum)(1
Independent study for advanced students only.

PHYSICAL EDUCATION

Students preparing to teach in Kentucky will receive both elementary and secondary certificati by fulfilling the requirements of this program.

Requirements for a Major in Physical Education: For those students desiring teaching certificati, thirty-seven semester hours which must include Physical Education 241, 275, 340, 351, 360, 361, 4, 420, 421, 425, Health 340, and four service courses. Physical Education 261 and 461 are required l will not count toward the required 37 hour major.

For students not desiring teaching certification, thirty-seven semester hours are required wh must include Physical Education 241, 321, 340, 351, 360, 361, 410, 420, 421, 425, Health 340, and fo service courses.

A maximum of eight semester hours of service courses may be credited toward graduation. Ph ical education majors must take four service courses. This is the maximum that can be applied t major, but others may be taken as electives. The following service courses also meet the elementa and secondary requirement for physical education.

Physical Education 111. Beginning Swimming (Non-swimmers only) (S,Sum)

Physical Education 112. Intermediate Swimming. (S,Sum)

Physical Education 121. Team Sports. (F)

Physical Education 122. Volleyball. (F,S)

Physical Education 132. Golf. (S)

Physical Education 133. Tennis and Badminton. (S,Sum)

Physical Education 134. Personal Fitness and Aerobic Activities. (F,S)

Physical Education 136. Weight Training. (F)

Professional Courses

Physical Education 241. History and Philosophy of Physical Education. (F)
From primitive man through the present, with particular emphasis on Greek physical educati European systems, and development of physical education in North America. Some research in the history of various sports.

Physical Education 251. Introduction to Athletic Training. (F)
Practical study and evaluation of various methods of conditioning. Emphasis on preventive a protective measures, practical study involving basic principles of massage, bandaging, strappi and first aid. Analysis of the instruction and operation of the training room.

Physical Education 261. Physical Education in the Elementary School. (F)
The role of the classroom teacher in physical education. Emphasis is placed on the application game, movements, exploration, rhythms, and self testing. Included are screening procedures the assessment of motor development.

Physical Education 271. Sports Officiating. (F)
Rules and officiating techniques in football, basketball, baseball, and track. (Odd years only.)

Physical Education 275. Principles of Elementary Movement Forms. (F)
An experience in discovering the principles behind basic movement forms at the elementa physical education level. Various movement theories and concepts will be explored and examin on the cognitive and kinesthetic bases.

ysical Education 301. Theories of Coaching Football. (F)(3)
The practical study of the game of football, as it applies to the coach and player. A study of the fundamental skills, principles, and concepts.

ysical Education 302. Coaching Men's and Women's Basketball. (F)(3)
(Even years only.)

ysical Education 304. Coaching Baseball and Softball. (F)(3)
(Even years only.)

ysical Education 311. Advanced Athletic Training. (S)(3)
This course will expand on the aspects of introduction to athletic training. Special emphasis will be placed on the evaluation of athletic injuries and illnesses of the athlete.

ysical Education 321. Recreational Leadership. (S)(3)
Leadership techniques in music, social games, arts and crafts, dramatics, camping, nature, and sports. Designed to aid students in enriching their own leisure time and to prepare for leadership in teaching, full-time Christian service, and social service.

ysical Education 340. Motor Development. (F)(3)
An examination of an individual's motor development across the lifespan. Particular emphasis will be placed on the effect physical activity has on growth and development.

ysical Education 351. Tests and Measurements in Health and Physical Education. (S)(3)
Evaluating health and physical education by the construction and administration of tests. Emphasizes reliability, objectivity, validity of tests, and grading systems.

ysical Education 360. Sport in Society. (S)(3)
A study of sport as a social institution in contemporary North American society. Emphasis will be placed on sport and its relationship with education, youth, women, politics, racism, and professionalism.

ysical Education 361. Organization and Administration of ysical Education and Athletics. (S)(3)
Administration of physical education and athletic programs in schools, with special emphasis on philosophy and leadership styles. Includes budget and finance, office management, curriculum development, facilities, legal factors, and public relations.

ysical Education 410. Exercise Physiology. (S)(3)
The effects of exercise and physical activity on various systems of the human body. Laboratory activities included. (Even years only.)

ysical Education 411. Rehabilitation of Athletic Injuries. (S)(3)
This course will expand on the techniques necessary in the rehabilitation and follow-up of athletic injuries.

ysical Education 420. Physical Education for the Exceptional Child. (F)(3)
Health conditions which require the physical education program to be adapted to meet the needs of individuals with handicapping conditions will be studied. Additional emphasis on national, state, and local agencies designed to help meet the needs of these individuals. Some work with a local, exceptional population may be required.

ysical Education 421. Kinesiology. (S)(3)
An analysis of human motion and its relation to athletic and gymnastic activities; practical application of these principles. (Odd years only.)

ysical Education 425. Psychological Foundations of Sport and Human Performance. (F)(3)
An introduction into the psychological realm of sport and physical activity and its relationship to other disciplines. The objective of this course is to enable students to understand and apply available information from sport psychology in order to make sport and physical activity a more productive and beneficial experience for the participants.

ysical Education 461. Physical Education in the Secondary School. (F)(3)
Topical areas such as philosophy, teacher certification, competencies, and professional activities will be covered. Curriculum construction, instructional methods, class management and techniques for teaching specific activities will be considered as they relate to the secondary level.

ysical Education 495. Independent Study. (F,S,Sum)(3)
Independent work for advanced students only.

ATHLETIC TRAINING

Requirements for a Minor in Athletic Training: Twenty-four hours which must include Hea 131, 270, 340, Physical Education 251, 311, 410, 411, and 421.

Completion of this minor will not automatically certify the student as a qualified Athletic Trair the National Athletic Training Association (NATA) exam will have to be passed. But, courses includ in the minor plus other courses such as statistics, psychology, and chemistry, already included the liberal education core, will prepare each student in areas necessary for successful completion the exam.

SPORTS MANAGEMENT

The Sports Management Program is designed for individuals interested in pursuing a career i sports management related field. Opportunities for careers exist with professional sports tea YMCA's, health clubs, sporting goods sales, and athletic management.

Two options within the program are available. Option 1, Health/Fitness, is for the individual w desires to become involved as an instructor in a YMCA, health, or fitness club aspect. Optior Business Operations, is designed for the individual who desires to become involved in the mana ment/sales area of sport.

Requirements for a Major for Option 1, Health/Fitness: From the Physical Education area, f activity courses which must include PHED 111 and 134, PHED 241, 340, 351, 361, 410, 420, 421, 4 and HLTH 340. From the Business area, ACCT 271, 272, BUAD 352, 370, 372, COMP 105, 231, MK 272 and OFAD 302. In addition, all students will be required to take a 6 hour Internship progr in a related setting.

Requirements for a Major for Option 2, Business Operations: From the Physical Education a four activity courses and PHED 241, 321, 351, 360, 361, 420, 421, and HLTH 340. From the Busin area, ACCT 271, 272, BUAD 310, 321, 352, 370, 372, COMP 105, 231, ECON 154, and OFAD 302. addition, all students will take a 6 hour Internship program in a related setting.

MILITARY SCIENCE PROGRAM (Army ROTC)

The mission of Union College's Army ROTC Department is to commission the future off leadership of the United States Army. This is accomplished by providing a means for college stude to pursue an Army commission as a second lieutenant while achieving their academic goals in t chosen field of study. Students may enroll in the first two years (Military Science 100-200 le courses) of Army ROTC without obligation to the military. These students gain an appreciatior the roles and missions of our national defense structure as well as military history. Students wh future employment goals may require leadership or managerial skills, those with an interest in national defense structure, or those who wish to explore the benefits of a career in the U.S. Ar Reserves, National Guard, or regular service are encouraged to take the introductory courses. S dents who desire to receive a commission must contract to complete the advanced courses (Milit Science 300-400 level courses) and ROTC Advanced Camp before commissioning.

A two-hour leadership lab is held each week and is required for all registered Military Scie 301, 302, 401, and 402 students. A 45 minute physical training lab is held three times weekly for Military Science 300 and 400 level courses. Uniforms are issued for leadership lab participants $100.00 monthly allowance is paid to advanced course students participating in Military Science and 400 level courses.

A complete military science program is four years in length and is designed to supplement a complement any regular baccalaureate degree program. Successful completion of the advanced r itary science program qualifies a student for commission as a second lieutenant in one of the accession branches in the U.S. Army. Entrance into other non-accession branches may occur a additional schooling.

Students desiring to enter the U.S. Army on active duty after completing ROTC must reques through the Professor of Military Science. Competition for active duty is keen. Students who de to be commissioned in the Army Reserves or National Guard may sign a guaranteed reserve for duty contract.

ADVANCED PLACEMENT CREDIT

U.S. military veterans, Reserve, or National Guard personnel who have completed ninety days ctive duty for training, students with three or more years of junior ROTC, and academic sophomores ho complete the six-week Army ROTC Basic at Fort Knox, Kentucky may qualify for entry into ie program at the advanced level. Interested students must be pursuing a four-year degree, have minimum of four full semesters of undergraduate degree work remaining at time of entry, and eet all other requisites for commissioned service. A special program for graduate students is also vailable.

MINOR IN MILITARY SCIENCE

A student may minor in military science by completing seventeen hours of advanced military ience (Military Science 301, 302, 401, 402, and 487), Military Science 202, and either six hours of ie ROTC Basic Courses or advanced placement credit.

SCHOLARSHIPS

Army ROTC scholarships are available to all students enrolled at Union College. These scholarships rovide full payment of tuition, laboratory fees, an allowance for books and a nontaxable subsistence llowance of $100.00 per month for ten months each year the scholarship is in force. Scholarships re awarded on a competitive basis. Initial selection is made on campus by a board of Army officers. inal selection is made at Fort Knox, Kentucky.

High school students are eligible for four-year ROTC scholarships. Applicants interested in obaining a four-year scholarship will be evaluated on the basis of the whole person concept. Students ay qualify for a scholarship if:

a. They are a citizen of the United States. Non-citizens are ineligible for scholarship benefits.

b. They will be at least 17 years of age by October 1, of the year they enter college.

c. They have no moral obligation or personal conviction that will prevent them from:
   1. Supporting and defending the Constitution of the United States against all enemies-foreign and domestic.
   2. Conscientiously bearing arms.

d. They satisfactorily explain any record of arrest and/or civil conviction.

e. They receive at least a minimum SAT score of 850 and/or an ACT composite score of 19.

For additional information, including questions on ROTC scholarships and other assistance, see nilitary science officers on campus or the division chair of Applied Sciences.

MILITARY SCIENCE

Military Science 101. Group Dynamics of Leadership. (F)(2)
Development of leadership and problem solving abilities; examination of leadership style and counseling techniques; comparison of civilian and military leadership; and analysis of the Constitutional historical basis for the U.S. Army.

Military Science 102. Military Skills and Operational Teamwork. (S)(2)
A study of principles, techniques and fundamentals of essential skills to the military profession. Map reading, weapons familiarization, communications, and rappelling are some of the topics covered. Classes are systematically arranged to promote student participation in group leadership development and problem solving techniques.

Military Science 202. American Military History. (S)(3)
Examines U.S. Military history from pre-revolutionary times to post-Vietnam; defines the principles of war; discusses political-military interactions; develops leadership through group contributions; case studies which apply the principles of war to historical periods. This course counts toward the history major.

Military Science 203. Intermediate Leadership and Management. (F)
Provides students continued development of basic military skills through practical leadersl experiences in performing emergency medical treatment, drill and ceremonies, physical traini and rifle marksmanship. Principles of leadership and management are presented in classro discussion.

Military Science 287. Military Science Practicum (Basic). (on demand)(2,5
Introduces Military Science in a comprehensive summer field course designed to be taken in li of MLSC 101, 102, 202, or 203. This course emphasizes practical field application and leadersl development.

Military Science 301. Advanced Leadership and Management I. (F)
Introduction to advanced leadership and management, emphasizing the branches of the Arm communication systems, and equipment. Defines principles of leadership and develops leadersl through practical application as a leader in field training and physical conditioning.

Military Science 302. Advanced Leadership and Management II. (S)
Develops leadership and management ability and military skills in military communications, wea ons, and tactics. Develops leadership and command presence through student presentations a practical application as a leader in field training and physical conditioning.

Military Science 401. Fundamentals and Dynamics of the Military Team I. (F)
Develop staff officer skills in leadership and management through decision making and proble solving techniques through military planning, administrative and logistical management and d tailed training management.

Military Science 402. Fundamentals and Dynamics of the Military Team II. (S)
Discusses the impact of world affairs on U.S. Armed Forces; defines overall professional and ethi responsibilities of military officers; development of military officers; development of military ma agement techniques; establishes a basic understanding of military justice and the Geneva conve tion.

Military Science 487. Military Science Practicum (Advanced). (on demand)
Develops leadership through intensive six-week field course of rotating leader/command expe ence in problem analysis, decision making, and troop leading, while providing in-depth covera of technical and tactical subjects.

DIVISION OF HUMANITIES

Dianne R. Ferris, *Chairperson*
Department of English and Foreign Languages
Department of Music and Fine Arts
Department of Religion and Philosophy

umanities 320. Medieval Civilization. **(F)(3)**
An introduction to the history and civilization of Western Europe from 800 to 1450. (Odd years only.)

. DEPARTMENT OF ENGLISH AND FOREIGN LANGUAGES

Vernon G. Miles, *Department Head*
English — French — German
Journalism Emphasis

tatement of Departmental Goals and Assessment Procedures

epartmental Goals and Objectives

The English major, English major with a journalism emphasis, journalism minor, and the English rea at Union College include study in both literature and writing. Requirements promote understanding of the expressive capacities of language and appreciation of the psychological, cultural, and istorical insights of literature. Students learn, as well, how to think critically and communicate ffectively in a variety of contexts. Graduates find careers in a wide range of fields, including teaching, business and industry, public relations, and journalism. In addition, an English major, an English ajor with a journalism emphasis, journalism minor, or an English Area provide excellent preparation for graduate study in a variety of areas.

Upon graduation from Union College with a major in English, students should be able to:

1. write essays that follow the conventions of standard English usage, that are clear, organized, developed, and thoughtful, and that demonstrate awareness of audience.
2. read literature with understanding, appreciation, and judgement.
3. demonstrate knowledge of the major traditions of English and American literature.
4. discuss a literary work in the context of its historical period or genre.
5. demonstrate knowledge of the nature and functions of language or of the historical development of English.

Upon graduation from Union College with a major in English with a journalism emphasis, students hould be able to meet goals 1-5 above and also:

6. perform the editorial and production skills required in the production of typical print media.
7. understand the role, responsibility, and operation of media in American society.

Upon graduation from Union College with an area in English, students should be able to meet oals 1-5 above and also:

8. demonstrate more extensive preparation in writing and in speech, drama, or journalism.

tatement of Assessment Procedures

All seniors in these three programs will be asked to compile a portfolio of work they have done n courses in the major or area and to write a short analysis of their work. This analysis should nclude a statement explaining why certain pieces of writing were included in the portfolio and what they show about the student's improvement as he or she has progressed through the major. This will be due two weeks prior to the spring Assessment Day. In addition, on Assessment Day ach graduating senior will be interviewed by a departmental committee as part of the process of ssessing whether departmental goals are being met.

Requirements for a Minor in English

An additional elective English course and Education 362 are required for those seeking teac certification.

		Semester Ho
ENGL 221	Survey of English Literature I	3
ENGL 222	Survey of English Literature II	3
ENGL 231 or 232	Survey of American Literature	3
ENGL 311	Intermediate Composition	3
ENGL 372	Shakespeare	3
A genre course, chosen from the following		3
ENGL 351	The English Novel: Defoe to Brontes	
ENGL 352	The English Novel: ca. 1850 to D.H. Lawrence	
ENGL 451	Modern Poetry	
ENGL 452	American Novel	
A language course, chosen from the following		3
ENGL 401	Modern Grammar	
ENGL 421	History of the English Language	
		21

Requirements for a Major in English

In addition to all courses required for the minor, students take one of the following courses:

A period course, chosen from the following		3
ENGL 320	Medieval English Literature	
ENGL 321	English Renaissance Literature	
ENGL 322	Restoration and Eighteenth Century Literature	
ENGL 323	Nineteenth Century Literature	
ENGL 431	Contemporary American Literature	
ENGL 472	Seminar in Literature	3
An English elective		3
		30

Requirements for a Major in English with a Journalism Emphasis

Students take twenty-four hours of English courses (listed below) and twenty-three hours Journalism courses which must include JOUR 200, 225, 227 and four practicums. Practicums may fulfilled by working either on the Union Express (JOUR 180 to 480) or on the Stespean (JOUR 1 to 490) or by choosing a combination of the two practicum sets. Four additional Union Expre practicums and four additional Stespean practicums are available to students during their junior a senior years. Only four hours of practicum may be included in the twenty-three hour Journalis course requirement.

		Semester Ho
ENGL 221	Survey of English Literature I	3
ENGL 222	Survey of English Literature II	3
ENGL 231	Survey of American Literature I	3
ENGL 232	Survey of American Literature II	3
ENGL 311	Intermediate Composition	3
ENGL 401 or	Modern Grammar	
ENGL 421	History of the English Language	3
ENGL 402	Advanced Composition	
or	300-400 level literature course	3
	Elective 300-400 level literature course	3
		24

equirements for a Minor in Journalism

		Semester Hours
)UR 151	Introduction to Mass Communication	3
)UR 225	Newswriting	3
)UR 226	Feature Writing	3
)UR 227	Editing, Design	3
)UR 331	Media Law and Ethics	3
)UR 345	Print Design, Typography	3
)UR 180	Journalism Practicum	1
wo additional practicum courses, chosen from the following		2
JOUR 190	Journalism Practicum	
JOUR 280	Journalism Pracitcum	
JOUR 290	Journalism Practicum	
JOUR 380	Journalism Practicum	
		21

equirements for an Area in English

Eighteen hours in addition to the thirty-hour major. These six courses must include an additional nguistics course (English 401 or 421), English 402 or 419, and courses distributed among drama, urnalism, and speech (these may include Speech 131).

ther Requirements

Students preparing to teach high school English are required to take Education 362 and should ect the English major, minor, or area. They should consult the Education Department for full formation about course requirements.

All students majoring or minoring in English are advised to take at least six hours of a foreign nguage.

ENGLISH

nglish 090-091. English as a Second Language. **(on demand)(0)**
A preliminary, non-credit course for the foreign student seeking to acquire sufficient competence in listening to and speaking the English language to be able to communicate effectively in the classroom and in the college community.

nglish 110. Developmental English. **(F,S)(3)**
Training in college-level language skills. Designed to prepare students in English 111 and other introductory courses.

nglish 111. Freshman Composition I. **(F,S)(3)**
Writing papers from a variety of rhetorical approaches and stressing interdisciplinary connections. Reading of short prose pieces as models and for discussion. Must precede English 112.

nglish 112. Freshman Composition and Literature. **(F,S)(3)**
Literary works and forms from the ancient world to the Middle Ages provide the basis for longer papers emphasizing critical writing and documentation.

nglish 113. Honors Composition and Literature. **(F)(3)**
A philosophical, historical, and critical survey of literary works and forms from the ancient world through the Medieval Period, this course is the first half of an English sequence designed to fulfill the Liberal Education Core at the honors level. *Prerequisite:* Acceptable score on national standardized test and permission of the department.

A general prerequisite for 200-level courses is the successful completion of English 111 and 112, r English 113 with a grade of "C" or better.

nglish 212. Western Literature. **(F,S)(3)**
Survey of Western Literature from early Christian era through 17th Century. *Prerequisite:* English 112.

English 213. Honors Western Literature. (S)
A philosophical, historical, and critical survey of literary works and forms from the Renaissa through the Nineteenth Century, this course is the second half of an English sequence desig to fulfill the Liberal Education Core at the honors level.

English 221, 222. Survey of English Literature. (F,S)
The first half includes the Middle Ages, the Renaissance, the Restoration and Eighteenth Centu and the second includes the Romantic and Victorian periods, and the Twentieth Century. Eit course may be taken separately and not necessarily in sequence.

English 231, 232. Survey of American Literature. (F,S)
The first half (1620-1865) begins with the Puritan writers and ends with Walt Whitman and En Dickinson, and the second (1865-1945) begins with Regional writers and ends with William Fa ner. Either course may be taken separately and not necessarily in sequence.

English 311. Intermediate Composition. (S)
A writing course designed to reinforce and expand expository writing skills with an emphasis writing as process.

A general prerequisite for literature courses numbered 300 and above is the successful complet of any one of English 212, 221, 222, 231 or 232. Students are urged to consult with members of department before enrolling for advanced work.

English 320. Medieval English Literature. (F)
A study of notable works from selected genres of tenth to fifteenth-century literature with p ticular attention to Arthurian material, Chaucer, the Lyric, and drama. (Odd years only.)

English 321. English Renaissance Literature. (S)
A study of poetry, prose, and non-Shakespearean drama, beginning in the early sixteenth centu and ending with Milton. (Odd years only.)

English 322. Restoration and Eighteenth Century Literature. (F)
A study of major prose and poetry of the Restoration and eighteenth century, covering Dryd Pope, Swift, Johnson, and their contemporaries. (Even years only.)

English 323. Nineteenth Century Literature. (S)
Major poetry and nonfiction prose of the nineteenth century, with focus on the rise and tra formation of Romanticism in England from Blake and Wordsworth to Tennyson and Browni (Even years only).

English 325. Afro-American Literature. (F)
A critical and historical study of the development of Afro-American literature in its various for (slave narrative, essay, folk-tale, short story, poetry, novel, and drama) from its beginning to present. (Even years only.)

English 351, 352. The English Novel. (F,S)
Historical study of the growth of the novel as a form. The first course includes novels from De through the Brontes; the second begins ca. 1850 and goes through D.H. Lawrence. Either cou may be taken separately and not necessarily in sequence. (Even years only.)

English 355. Children's and Adolescent Literature. (F)
A course that surveys a wide variety of fiction and poetry enjoyed by children and adolesce and suggests ways of evaluating these works as literature.

English 372. Shakespeare. (S)
A critical approach to selected histories, comedies, and tragedies, focusing on their timeless hum literary and dramatic qualities.

A general prerequisite for 400-level courses is junior standing.

English 401. Modern Grammar. (F)
An intensive review of traditional grammar in combination with selected material from structu alist views of linguistic analysis and theories of transformational grammar. Attention will be p to the practical application of each. (Even years only.)

English 402. Advanced Composition. (on demand)
Writing competency is reinforced by further developing what has been learned in previous writi courses. The instructor will assign factual narratives, autobiographies, or other significant writi projects.

nglish 419. Composition for Teachers. (on demand)(3)
Review of basic elements of composition with regular writing assignments in both expository and argumentative modes. Techniques of marking and evaluation of student papers. Research techniques, a methodology for teaching students to develop a research paper and practical application of the methodology through the assignment of a research paper as an integral part of the course itself.

nglish 421. History of the English Language. (F)(3)
A study of the origins and development of the English language from Anglo-Saxon times to the present. (Odd years only.)

nglish 431. Contemporary American Literature: Fiction. (F)(3)
A critical and historical study of the major American fiction (short stories and novels) since 1940, beginning with Richard Wright and J. D. Salinger and proceeding through the experimental fiction of the present time. (Odd years only.)

nglish 451. Modern Poetry. (F)(3)
American and British poetry, with consideration of ways of reading, criticizing, and writing verse in this century. (Odd years only.)

nglish 452. American Novel. (S)(3)
A critical and historical study of the development of the American novel and its form from its beginning to William Faulkner. (Odd years only.)

nglish 472. Seminar in Literature. (S)(3)
Intensive study of a major writer, group, or literary topic. May be repeated once for credit.

nglish 495. Independent Study. (F,S)(3)
Intensive individual work under supervision, in some phase of English, American, or world literature linguistics, or composition not otherwise covered in the curriculum. *Prerequisites:* Twenty-four hours of English above English 111, 112, and permission of the head of the department. May be repeated for credit.

JOURNALISM

ournalism 180, 280, 380, 480. Journalism Practicum. (F,S)(1)
Operation of the campus newspaper, the Union Express, provides experience in reporting, layout, desktop publishing and photojournalism. Practicums above 280 include management. To be taken in sequence beginning with 180.

ournalism 190, 290, 390, 490. Journalism Practicum. (F,S)(1)
Operation of the campus yearbook, Stespean, provides experience in desktop publishing, writing and photojournalism. Practicums above 290 include management. To be taken in sequence beginning with 190.

ournalism 151. Introduction to Mass Communication. (F,S)(3)
Examines the significant theory, philosophy and history of mass communication. The course's emphasis on the motivations of journalists is important for journalism audiences, sources, and practitioners.

ournalism 225. Newswriting. (F)(3)
Basic course in reporting the news. Focus on information gathering, news story content formats, working under deadlines, and use of Associated Press style.

ournalism 226. Feature Writing. (F)(3)
A basic course for journalists. Introduces feature story formats, interview techniques, and staff and freelance markets in newspapers, magazines, and newsletters. *Prerequisites:* English 112. (Odd years only.)

ournalism 227. Editing, Design. (S)(3)
Basic course in copy editing, design, desktop publishing, headline writing, and photograph handling. (Even years only.)

ournalism 233. Photojournalism. (on demand)(3)
Reporting the news with a camera. Stresses composing and shooting with a 35mm camera. Includes darkroom experience. Lab fee: $25. (Odd years only.)

ournalism 331. Media Law and Ethics. (F)(3)
Examines the segment of U.S. laws which governs freedom of the press (First amendment, libel, invasion of privacy, pornography/obscenity). Reviews press ethicists and applies their theories to print and broadcast media. (Even years only.)

Journalism 332. Editorial and Public Relations Writing. (on demand)
Focuses on the specialized area of advocacy journalism. Introduces editorials, press releases, a writing for organizations.

Journalism 333. Sports Writing. (on demand)
Focuses on news and feature coverage of sports events, personalities and trends. Examines te niques for interviewing, analyzing statistics, and acquiring sports information. *Prerequisite:* typi proficiency of 20 w.p.m.

Journalism 340. Advanced Reporting. (on demand)
Gathering and writing news in depth on current issues and concerns. Stresses awareness of lo state, national, and international issues. *Prerequisite:* Journalism 225.

Journalism 345. Print Design, Typography. (S)
Creative and practical aspects of designing publications with the Macintosh computer, deskt publishing software, and laser printer. Instruction in designing newspapers, magazines, and nev letters in the Teagle Writing Lab.

Journalism 450. Seminar in Communication. (on demand)
To prepare students for graduate study, the course offers instruction in communication theo models, and research. Experience in content analysis and survey research. *Prerequisites:* Twel credit hours in Journalism, Junior or Senior status, and recommendation of Journalism instruct

Journalism 485. Internship.
Professional experience with a news or public relations organization or high school in writin editing, design, or photography. *Prerequisites:* Fourteen credit hours in Journalism, Junior or Seni status, and recommendation of Journalism instructor.

Journalism 486, 487, 488, 489. Journalism Practicum. (F,S)
Position of high level responsibility on campus newspaper provides continued experience editing, layout, and newspaper management. *Prerequisite:* Journalism 480.

Journalism 492, 493, 496, 497. Journalism Practicum. (F,S)
Position of high level responsibility on campus yearbook provides continued experience in ph tojournalism, layout, and yearbook management. *Prerequisite:* Journalism 490.

FRENCH

The program offers the opportunity to gain understanding of France and its culture as well as basic knowledge of the French language. Students offering more than one entrance unit in Fren and students transferring from other colleges should consult with the instructor before registeri for any course in French.

French 111. Elementary French I. (F)
Basic French grammar; simple reading, practice in the oral and written language.

French 112. Elementary French II. (S)
Continuation of French 111. *Prerequisite:* French 111 or equivalent.

French 211. Intermediate French I. (F)
More detailed study of grammatical structure; study of important literary works; individual co lateral reading tailored to the student's interests. *Prerequisite:* French 112 or equivalent.

French 212. Intermediate French II. (S)
Continuation of French 211. *Prerequisite:* French 211 or equivalent.

French 331. French Civilization. (on demand)
The economic, social, and cultural development of France, French contributions to world civi zation. May not count toward fulfillment of the language requirement. **No knowledge of Fren required.**

French 495. Independent Study. (F,S)
Intensive independent study of some aspect of French literature or civilization. May be repeate for credit.

GERMAN

The program offers the opportunity to gain some understanding of Germany and its culture a well as a basic knowledge of the German language. Students offering more than one entrance un in German and students transferring from other colleges should consult with the instructor befo registering for any course in German.

:rman 111. Elementary German I. (F)(3)
Basic German grammar; simple reading; practice in the oral and written language.

:rman 112. Elementary German II. (S)(3)
Continuation of German 111. *Prerequisite:* German 111 or equivalent.

:rman 211. Intermediate German I. (F)(3)
More detailed study of grammatical structure, reading of important literary works; individual collateral reading tailored to the student's interests. *Prerequisite:* German 112 or equivalent.

:rman 212. Intermediate German II. (S)(3)
Continuation of German 211. *Prerequisite:* German 211 or equivalent.

:rman 331. German Civilization. (on demand)(3)
The economic, social, and cultural development of Germany; German contributions to world civilization. May not count as part of the language requirements. **No knowledge of German required.**

:rman 495. Independent Study. (F,S)(3)
Intensive independent study of some aspect of German literature or civilization. May be repeated for credit.

II. DEPARTMENT OF MUSIC AND FINE ARTS

Betty S. Stroud, *Department Head*
Art — Drama and Speech — Music

ART

Union College course offerings in the field of art provide service courses for several curricula and portunities for exploration and growth in artistic self-expression.

t 132. Introduction to Art. (S)(3)
An introduction to Art outlining basic approaches, principles, techniques and media as well as styles of expression, both past and present.

t 271. Elementary School Art. (F)(3)
A studio course involving many kinds of art projects in media suitable to and practicable for elementary grades.

t 273. Art History. (on demand)(3)
The intensive study of major movements, personalities, and styles of architecture, painting and sculpture of world art.

t 495. Independent Study. (F,S)(3)
Independent study or research on approved topics. May be repeated for credit.

DRAMA AND SPEECH

Requirements for a Major: A major in Drama consists of the following 33 hours. Six of these hours ay be in either upper division dramatic literature courses or a combination of one upper division amatic literature course and the last three levels of Theatre Practicum.

		Semester Hours
RAM 251	Fundamentals of Acting	3
RAM 331	Scene and Light Design	3
RAM 332	Costume and Make-up Design	3
RAM 352	Advanced Acting	3
RAM 365	History of the Theatre to 1642	3
RAM 366	History of the Theatre since 1642	3
RAM 451	Directing	3
RAM 461	Senior Project I	3
RAM 462	Senior Project II	3

Two of the following		6
DRAM 280, 380, 480	Theatre Practicum	
DRAM 421	Non-Western Theatre and Drama	
ENGL 372	Shakespeare	
		33

Requirements for a Minor in Drama: A minor in Drama consists of the following 21 hours. Si of these hours may be in either upper division dramatic literature courses or a combination of e upper division dramatic literature course and the last three levels of Theatre Practicum.

		Semester H rs
DRAM 251	Fundamentals of Acting	3
DRAM 331	Scene and Light Design	
OR		
DRAM 332	Costume and Make-up Design	3
DRAM 365	History of the Theatre to 1642	3
DRAM 366	History of the Theatre since 1642	3
DRAM 451	Directing	3
Two of the following		6
DRAM 280, 380, 480	Theatre Practicum	
DRAM 421	Non-Western Theatre and Drama	
ENGL 372	Shakespeare	
		21

Drama 131. Introduction to the Theatre. (F)
A broad overview of the history of theatre and drama as well as an introductory study of acti , designing, and directing.

Drama 180, 280, 380, 480. Theatre Practicum. (F,S)
Actual practical experience in preparing productions for Union College Theatre. Participation y be in the area of acting or technical work.

Drama 251. Fundamentals of Acting. (S)
An introduction to the Stanislavsky system of acting. The course will consist of acting exerci s, text analysis, and the performance of short scenes. (Even years only.)

Drama 331. Scene and Light Design. (F)
Fundamentals of set and light design for the stage. Practical study of set construction and light g equipment as well as designing the set and lights for a production. *Prerequisite:* Drama 131 r permission of instructor. (Odd years only.)

Drama 332. Costume and Make-up Design. (S)
Fundamentals of costume design for the stage. Practical study of costume construction and plication of stage make-up as well as designing costumes for a period play. *Prerequisite:* Dra a 131 or permission of instructor. (Odd years only.)

Drama 352. Advanced Acting. (on demand)
Analysis and performance of scenes from contemporary drama and Shakespeare. *Prerequis* Drama 251 or permission of instructor.

Drama 365. History of the Theatre to 1642. (F)
A study of the theatre, drama, and criticism from the Greeks to 1642. *Prerequisite:* Drama 131 r permission of instructor. (Even years only.)

Drama 366. History of the Theatre since 1642. (S)
A study of the theatre, drama, and criticism from 1642 to the present. *Prerequisite:* Drama 131 r permission of instructor. (Even years only.)

Drama 421. Non-Western Theatre and Drama. (on demand)
A study of the traditional forms of theatre and drama in India, Southeast Asia, China, and Jap . *Prerequisite:* Drama 131 or permission of instructor.

Drama 451. Directing. (on demand)
Study of directing techniques, and script analysis culminating in the staging of a one-act pl . *Prerequisite:* Permission of instructor.

rama 461. Senior Project in Theatre I. (on demand)(3)
Advanced work in the theatre arts which consists of selecting, analyzing, and designing a full-length play for production (or a project of comparable magnitude to be chosen in consultation with the instructor). Open to drama majors only.

rama 462. Senior Project in Theatre II. (on demand)(3)
Continuation of Drama 461: will consist of mounting the production of the full-length play (selected, analyzed, and designed in Drama 461) as part of the Union College Theatre season (or completion of alternative project). *Prerequisites:* Successful completion of Drama 461 and permission of the instructor.

rama 495. Independent Study in Drama. (on demand)(3)
Independent study or research on approved topics.

peech 131. Public Speaking. (F,S)(3)
Study of and practice in gathering and organizing material and delivering informative and persuasive speeches.

peech 231. Oral Interpretation of Literature. (S)(3)
Analysis and performance of narrative prose, poetry, and drama. (Odd years only.)

MUSIC

bjectives:

1. To provide the required curricula for the Bachelor of Arts and the Bachelor of Science in Music, the Bachelor of Music in Church Music, the Bachelor of Music in Music Education.
2. To offer group and private instruction which provides for the development of individual musicianship of the music major, music minor, and general college student.
3. To offer opportunities for participation in music ensembles and music theatre for the music majors, music minors, and general college students.
4. To provide recitals, concerts, and music theatre for the cultural enrichment of the campus and community.

Music Library: The music library, located in the Fine Arts Building, contains records, scores, stening and computer assisted music instruction facilities.

DEGREES

Students majoring in music at Union College may pursue the following degree programs:
Bachelor of Music in Music Education
Bachelor of Music in Church Music
Bachelor of Arts in Music
Bachelor of Science in Music
Bachelor of Science in Music and Business

Bachelor of Music in Music Education
(K-12 Certificate)

Candidates for the Bachelor of Music Education will take the following courses (see also Liberal ducation and graduation requirements).

(Part of general studies for music majors; prerequisite to admittance to the major in music edu-tion.)

Option I, Instrumental Emphasis *Semester Hours*

MUSC 161-162	Foundations of Music	8

I. Music Core

MUSC 111-411	Applied Music	14
MUSC 152, 153, 154, 155, 156, 157, 158, 159	Ensembles	0
MUSC 173-174	Piano Class	2
MUSC 261-262	Harmony	6
MUSC 263-264	Ear-Training	2
MUSC 321-322	Music History	6
MUSC 361-362	Form and Analysis	4
MUSC 417	Senior Recital	1
		35

II. Professional Courses

EDUC 241	Introduction to Education	3
EDUC 242	Early Involvement Internship	3
EDUC 351	Human Growth and Development	3
EDUC 453	Supervised Student Teaching in the Secondary School	12
MUSC 373	Elementary School Music	3
MUSC 375	Instrumental Methods and Materials	2
MUSC 471	Marching Band Techniques	2
PSYH 361	Psychology of Learning	3
SPED 365	Foundations of Education of the Exceptional Child	3
		34

III. Additional Music Requirements

MUSC 171	String Instruments Class	1
MUSC 172	Woodwind Instruments Class	1
MUSC 175	Brass Instruments Class	1
MUSC 176	Percussion Instruments Class	1
MUSC 365	Arranging	2
MUSC 474	Instrumental Conducting	2
	Total	77

Option II, Vocal Emphasis

MUSC 161-162	Foundations of Music	8

I. Music Core

MUSC 111-411	Applied Music	14
MUSC 152, 153, MUSC 154, 155, MUSC 156, 157, MUSC 158, 159	Ensembles	0
MUSC 173-174	Piano Class	
or 177-178	Voice Class	2
MUSC 261-262	Harmony	6
MUSC 263-264	Ear-Training	2
MUSC 321-322	Music History	6
MUSC 361-362	Form and Analysis	3
MUSC 417	Senior Recital	1
MUSC 475	Pedagogy	2
		37

I. Professional Courses

EDUC 241	Introduction to Education	3
EDUC 242	Early Involvement Internship	3
EDUC 351	Human Growth and Development	3
EDUC 453	Supervised Student Teaching in the Secondary School	12
MUSC 373	Elementary School Music	3
MUSC 374	Vocal Methods for the Secondary School	3
PSYH 361	Psychology of Learning	3
SPED 365	Foundations of Education of the Exceptional Child	3
		33

II. Additional Music Requirements

MUSC 365	Arranging	2
MUSC 473	Choral Conducting	2
		4
	Total	74
Keyboard Majors:	Private Voice	2
	Total	76

Option III, Instrumental Endorsement

Completion of Option II plus an additional twelve hours organized as follows: choice of any three of the four instrumental techniques classes, 3 hours; additional applied music study in one of those areas (3 semesters), 3 hours; Instrumental Conducting, 2 hours; and four additional semesters of participation in an instrumental ensemble (for a total of six semesters), 4 hours.

Option IV, Vocal Endorsement

Completion of Option I plus an additional twelve hours organized as follows: Pedagogy — Vocal, hours; Choral Conducting, 2 hours; Voice Class, 2 hours; additional voice study (2 semesters), 2 hours; and four additional semesters of participation in a vocal ensemble (for a total of six semesters), -4 hours.

Bachelor of Music in Church Music

Candidates for the Bachelor of Music in Church Music will take the following courses (see also Liberal Education and graduation requirements).

Music Core		*Semester Hours*
MUSC 111-411	Applied Music	14
MUSC 152, 153, 154, 155, 156, 157, 158, 159	Ensembles	0
MUSC 161-162	Foundations of Music	8
MUSC 173-174	Piano Class	
or 177-178	Voice Class	2
MUSC 261-262	Harmony	6
MUSC 263-264	Ear-Training	2
MUSC 321-322	Music History	6
MUSC 361-362	Form and Analysis	4
MUSC 417	Senior Recital	1
		43

II. Church Music and Professional Courses

MUSC 231	Handbell Methods	1
MUSC 333	Church Music Administration	2
MUSC 335	Hymnology	2
MUSC 337	Church Organs	2
MUSC 373	Elementary School Music	3
MUSC 374	Vocal Methods for the Secondary School	3
MUSC 436	History and Philosophy of Church Music	2
MUSC 437	Church Music Practicum	4
		19

III. Additional Music Requirements

MUSC 171, 172, 175	Instrumental Techniques (choose 2)	2
MUSC 462	Counterpoint	2
MUSC 473	Choral Conducting	2
MUSC 474	Instrumental Conducting	2
	Private Piano or Organ (for voice major) or Private Voice (for instrumental major)	2
		10

IV. Courses in Religion

RLGN 111	Old Testament History, Literature and Interpretation	3
RLGN 112	New Testament History, Literature and Interpretation	3
RLGN 354	Religion in the United States	3
		9
	Total	82

Bachelor of Arts and Bachelor of Science in Music

Candidates for the Bachelor of Arts or Bachelor of Science Degree in Music will take the following music courses either from Option I or Option II (see also Liberal Education and graduation requirements):

Option I. Academic Emphasis

		Semester Hours
MUSC 111-212	Applied Music*	8
MUSC 161-162	Foundations of Music	8
MUSC 261-262	Harmony	6
MUSC 263-264	Ear-Training	2
MUSC 321-322	Music History	6
MUSC 361-362	Form and Analysis	4
MUSC 421-422	Music History Seminar	6
	Ensemble	0
		40

Option II. Applied Emphasis

MUSC 111-412	Applied Music	16
MUSC 161-162	Foundations of Music	8
MUSC 261-262	Harmony	6
MUSC 263-264	Ear-Training	2
MUSC 321-322	Music History	6
MUSC 361-362	Form and Analysis	4
	Ensemble	0
		42

*The 212 level must be reached in the student's major applied area.

Bachelor of Science in Music and Business

Candidates for the Degree of Bachelor of Science in Music and Business will take the following courses (see also Liberal Education and graduation requirements):

I. Business Core		*Semester Hours*
ACTG 271-272	Principles of Accounting I and II	6
BUAD 310	The Legal Environment of Business	3
BUAD 351	Principles of Finance	3
BUAD 352	Principles of Management	3
COMP 211	Introduction to Business Information Systems	3
ECON 203	Principles of Macroeconomics	3
ECON 204	Principles of Microcomputers	3
MKTG 321	Principles of Marketing	3
		27

II. Music Requirements		
MUSC 101-202	Applied Music	4
MUSC 161-162	Foundations of Music	8
MUSC 171, 172, 173, 175, 176	String, Woodwind, Piano, Brass and Percussion classes (choose any 3)	3
MUSC 261-262	Harmony	6
MUSC 322	Music History	3
	Ensemble	4
		28

III. Additional Business Requirements		
MKTG 272	Personal Selling	3
OFAD 302	Business Communications	3
	Elective from the Department of Business (300 level or above)	3
	Field Placement	3-10
		12-19

Minor in Music

Twenty-one semester hours, including Music 161-162; three semester hours selected from either Music 321 or 322; two semester hours of music electives; two years of ensemble; and completion of the 202-level of course numbering in one field of applied music, or eight hours of applied music arranged differently with the consent of the department.

DEPARTMENTAL REQUIREMENTS

Specific requirements for music majors and minors are listed in the Music Department Handbook. Students will be held responsible for requirements in the Handbook. More detailed information is given for the following:

1. Entrance Test: All music majors and minors entering the Department for the first time shall take a placement test in theory and functional piano. The test is for placement only, and in no way affects the entrance to music study.
2. Keyboard Proficiency: All candidates for the Bachelor of Music in Music Education and the Bachelor of Music in Church Music must pass the Keyboard Proficiency Test. For details, see the Music Department Student Handbook.
3. Ensemble Requirements: All music majors are required to participate in a minimum of seven semesters of one ensemble within their major performance area. All music minors are required to participate in a minimum of four semesters in an ensemble within their major performance area.
4. Recital and Concert Attendance: Attendance at departmental recitals and concerts is required of all music majors and minors during each semester of applied music study.

5. Recital Requirements: Candidates for the Bachelor of Music degree and candidates for the Bachelor of Arts or Bachelor of Science degree in Music (Applied Emphasis) must present a full recital on their major instrument or in voice. Candidates for the Bachelor of Arts or Bachelor of Science in Music (Academic Emphasis) may be invited to present a recital by the music faculty.

APPLIED MUSIC—SECONDARY LEVEL

These courses are designed for any music major taking lessons on a secondary instrument, and elective credit for general college students.

Music 101-102. Applied Music (F,S)(1-2)
Freshman level secondary applied music study.

Music 201-202. Applied Music. (F,S)(1-2)
Sophomore level secondary applied music study.

Music 301-302. Applied Music. (F,S)(1-2)
Junior level secondary applied music study.

Music 401-402. Applied Music. (F,S)(1-2)
Senior level secondary applied music study.

APPLIED MUSIC—MAJOR LEVEL

These courses are designed for students enrolled in Music and Business and for students seeking a Bachelor of Arts or a Bachelor of Science degree with a music major or minor, applied emphasis, and for the Bachelor of Music in Church Music or Music Education.

Music 111-112. Applied Music. (F,S)(1-2)
Freshman major or minor level applied music study.

Music 211-212. Applied Music. (F,S)(1-2)
Sophomore major or minor level applied music study.

Music 311-312. Applied Music. (F,S)(1-2)
Junior major level applied music study.

Music 317. Junior Recital. (F,S)(0-1)

Music 411-412. Applied Music. (F,S)(1-2)
Senior major level applied music study.

Music 415-416. Applied Field Literature. (on demand)(2)
A study of the literature for the student's major instrument, and related instruments where appropriate, with attention to stylistic characteristics and ornamentation.

Music 417. Senior Recital. (F,S)(0-1)

Music 418-419. Sight-Reading and Accompanying. (on demand)(1)
Proficiency in reading the various clefs, vocal scores; and accompaniments, with emphasis on the techniques of sensitive accompanying. Keyboard majors and selected minors only.

HISTORY AND APPRECIATION

Music 121. Introduction to Music. (F)(3)
An historical approach to music appreciation focusing on period and style. Extensive listening to music literature. Not open to music majors or minors.

Music 122. Introduction to the History of American Popular Music. (S)(3)
An historical approach involving the study of styles and personalities beginning with the origins of jazz and ending with current trends and concepts. Open to all students.

Music 321, 322. Music History. (F,S)(3)
A study of representative music both written and recorded and readings coordinating and integrating music skills. (321) Antiquity through 1750. (322) Classic period to the present. *Prerequisite:* Music 162.

Music 421-422. Music History Seminar. (on demand)(3)
Intensive study of a selected period or genre. Major paper required. *Prerequisites:* Music 321, 322.

CHURCH MUSIC

Music 231. Handbell Methods. (F)(1)
A study of the techniques, methods, materials, and repertory of English handbell ringing. *Prerequisite:* Music 162 or permission of instructor.

Music 333. Church Music Administration. (F)(2)
The role of the minister of music as related to the graded adult, youth, and children's choir programs, budget and calendar planning, the congregation, the multiple staff church, and the denomination.

Music 335. Hymnology. (S)(2)
The study and analysis of the hymns of the church, their sources, development, and usage in contemporary service.

Music 337. Church Organs. (F)(2)
The study of the history of the instrument, types of organs, basic upkeep, techniques, and service repertoire.

Music 436. History and Philosophy of Church Music. (S)(2)
A detailed, historical study of music within the church relating to its origin and development, with emphasis upon liturgies and historic philosophical positions of the church on music.

Music 437. Church Music Practicum. (on demand)(4)
One semester or one summer of supervised field work in an approved church. *Prerequisite:* Consent of the Music faculty.

ENSEMBLES

Music 151. Orchestra. (F,S)(0-1)
Open by audition or invitation. Participation in the activities of the Chamber Orchestra of the Cumberlands, a college/community orchestra of modest size. One rehearsal per week. May be repeated for credit.

Music 152. Union College Singers. (F,S)(0-1)
Open by audition only; performs in chapel, Christmas concert, Spring concert, graduation, tours, and festivals. Limited to forty-nine students; four rehearsals per week. May be repeated for credit.

Music 153. Stage Band. (F,S)(0-1)
Open by audition only. A jazz-oriented ensemble of appropriate instrumentation limited to twenty students. One rehearsal per week. May be repeated for credit.

Music 154. Symphonic/Pep Band. (F,S)(0-1)
Open by audition only. Symphonic Band rehearses and performs a variety of music literature for the concert hall. Pep Band is a performance group which offers support and entertainment at home athletic events. Three rehearsals per week. May be repeated for credit.

Music 155. Brass Chamber Ensemble. (on demand)(0-1)
Open by audition only. Size and make-up will vary with the needs and interests of the students enrolled. One rehearsal per week. May be repeated for credit.

Music 156. Collegium Musicum. (on demand)(0-1)
Open to interested students. A performance group intended to give the student acquaintance with less frequently performed literature. One rehearsal per week. May be repeated for credit.

Music 157. Woodwind Chamber Ensembles. (on demand)(0-1)
Open by audition only. Size and make-up will vary with the needs and interests of the students enrolled. One rehearsal per week. May be repeated for credit.

Music 158. String Chamber Ensemble. (on demand)(0-1)
Open by audition only. Size and make-up will vary with the needs and interests of the students enrolled. One rehearsal per week. May be repeated for credit.

Music 159. Union College Chamber Singers. (F,S)(0-1)
A select vocal ensemble composed of a small number of singers whose repertory consists of vocal chamber music. Open by audition. May be repeated for credit.

THEORY

Music 161-162. Foundations of Music. (F,S)(4
A combined course in the areas of music theory, history, and literature.

Music 261-262. Harmony. (F,S)(3
Continuation of Music 161-162 in the area of part-writing and analysis. Advanced chromatic har mony of the middle Romantic period. *Prerequisite:* Music 162.

Music 263-264. Ear-Training. (F,S)(1
Sight-singing, ear-training, and dictation to be taken concurrently with Music 261-262. Two period per week. *Prerequisite:* Music 162.

Music 361-362. Form and Analysis. (F,S)(2
The development of musical forms from small units to large. Study of large scale analytic tech niques including those necessary for late 19th and 20th Century music. *Prerequisite:* Music 262.

Music 365. Arranging. (S)(2
Basic techniques of orchestration and arranging. *Prerequisite:* Music 162.

Music 461-462. Counterpoint. (461 on demand, 462 F, odd years)(2
The vocal counterpoint of Palestrina and the instrumental counterpoint of Bach. *Prerequisite:* Musi 162.

Music 465. Theory Seminar. (on demand)(3
An advanced course in music theory, including a study of contemporary practices. *Prerequisite* Music 362 and permission of the instructor.

MUSIC EDUCATION

Music 171. String Instruments Class. (F)(1
Class instruction in strings. (Even years only.)

Music 172. Woodwind Instruments Class. (S)(1
Class instruction in woodwinds. (Odd years only.)

Music 173-174. Piano Class. (F,S)(1
Class instruction in piano.

Music 175. Brass Instruments Class. (F)(1
Class instruction in brass. (Odd years only.)

Music 176. Percussion Instruments Class. (S)(1
Class instruction in percussion. (Even years only.)

Music 177-178. Voice Class. (F,S)(1
Class study for students who are not prepared to study at the level of private applied voice.

Music 373. Elementary School Music. (S)(3
Methods and materials in the elementary school. Will include fundamental ability at the keyboard the fundamentals of music, and library research. Includes die observation of and participation i public school classroom activities for music majors.

Music 374. Vocal Methods for the Secondary School. (F)(3
Materials, rehearsal techniques, and vocal health for the secondary school student. Includes di rected observation of and participation in public school classroom activities. *Prerequisite:* Junio standing.

Music 375. Instrumental Methods and Materials. (S)(2
Teaching Instrumental Music in the Public Schools: Procedures, techniques, curriculum, sched uling, administration, evaluation, materials, equipment, and community relations. Includes di rected observation of and participation in public school classroom activities. *Prerequisites:* Musi 171, 172, 175, 176, and Junior standing.

Music 471. Marching Band Techniques. (F)(2
Functions, organization, and direction of a school marching band program. *Prerequisite:* Junio standing.

Music 473. Choral Conducting. (F)(2
Techniques and literature. (Odd years only.)

Music 474. Instrumental Conducting. (F)(2)
Techniques and literature. (Even years only.)

Music 475. Pedagogy. (on demand)(2)
Techniques and principles of private and class instruction, emphasis on recommended materials.

INDEPENDENT STUDY

Music 495. Independent Study. (F,S)(2-3)
Independent study and/or research on approved topics. *Prerequisite:* Permission of the student's major professor. May be repeated for credit.

III. DEPARTMENT OF RELIGION AND PHILOSOPHY

L. Edward Phillips, *Department Head*
Christian Education — Religion — Philosophy — Philosophy/Religion

Courses in this Department are designed to acquaint students with the Judaeo-Christian heritage and the other great religious traditions and with the disciplines of human thought; to deepen their awareness of themselves and of the human community; to cultivate their powers of critical examination of the meaning and direction of human existence.

Studies in religion are especially recommended for students of art, history, and literature, and for students preparing for Christian vocations.

Studies in philosophy are especially recommended for pre-professional education for such vocations as the Christian ministry, college teaching, law, journalism, creative writing, and art, as well as for students of history, literature, and the sciences.

CHRISTIAN EDUCATION

In recognition of increasing demand for trained men and women as full-time Christian workers in the ministry of the local church, to serve in the capacities of pastor's assistant, director of youth work, or Director of Christian Education, a specific four-year course of study has been arranged, using the facilities of various departments. It is designed to meet the basic needs of students who wish to go directly into church positions without graduate work.

The thirty-hour major must include the following courses: Philosophy 261, Physical Education 321, Religion 111, 112, 356, 361, and Speech 131.

Nine additional hours in religion courses numbered above 300 complete the thirty-hour major. Psychology 402 may be substituted for one of these courses. Additional courses in music, drama and Appalachian Studies are recommended to complete the major. A second major or minor in drama or music is strongly suggested.

RELIGION

Requirements for a Major: Thirty semester hours. The thiry-hour major must include the following courses: Philosophy 261, Religion 111, 112, 252, 356, and 412 or 479. Twelve additional elective hours complete the major, at least nine of which must be in courses numbered above 300. Philosophy 371 may be substituted for one of these courses.

Requirements for a Minor: Twenty-one semester hours, at least nine of which must be in courses numbered above 300.

Religion 111. Old Testament History, Literature, and Interpretation. (F,S)(3)
The history of Israel from the earliest times to the Maccabean Age. Historical and literary criticism and religious significance of the emergence of Judaism.

Religion 112. New Testament History, Literature, and Interpretation. (F,S)(3)
Attention to author, date, origin, historical and religious significance.

Religion 131. World Religions. (S)(3)
A descriptive account of the faith and practices of present-day world religions, with emphasis on Hinduism, Buddhism, Confucianism, and Islam.

Religion 201-202. Elementary New Testament Greek. (on demand)(3
A semi-inductive approach to koine Greek recommended for persons interested in religion as wel as for religion majors.

Religion 252. Church History, Early and Medieval. (F)(3
The origin and development of the Christian Church from its beginning up to the eve of the Reformation. (Even years only.)

Religion 301-302. Elementary Old Testament Hebrew. (on demand)(3
A study of sufficient grammar to read simple Old Testament passages, recommended for person interested in religion as well as for religion majors.

Religion 331. The Life and Teachings of Jesus. (S)(3
The world into which Jesus was born and an inteerpretation of his messianic consciousness personality, activities, and teachings. *Prerequisite:* Religion 112 recommended. (Even years only.)

Religion 341. The Life and Teachings of Paul. (S)(3
The world of Paul, his life, teachings,a nd significance, using his letters as the primary source *Prerequisite:* Religion 112 recommended. (Odd years only.)

Religion 352. Church History from the Reformation to the Twentieth Century. (S)(3
Church History on the European continent and in England from the sixteenth century throug the nineteenth century. Attention will be given to the main Protestant and Catholic traditions with special emphais on the Wesleyan movement. (Odd years only.)

Religion 354. Religion in the United States. (F)(3
This course provides students with a phenomenological and historical description of the varieti of religious practice in the United States. No prerequisites. (Odd years only.)

Religion 356. Contemporary Christian Thought. (S)(3
Examination of contemporary understandings of the Christian faith, with emphasis on the natur of God and humanity; the significance of Christ and the church; the relation of religion to morality the meaning of Creation and Redemption; and the interpretation of Human Destiny. *Prerequisit* Religion 112. (Even years only.)

Religion 361. Education in the Local Church. (F)(3
Theory and practice of Christian Education with special attention on planning a program in th local church. (Even years only.)

Religion 412. Worship and Sacrament. (F)(3
The development of worship and sacrament in Christianity from the Bible to the present. Attentio will be given to the diversity of practice in contemporary Western churches. *Prerequisite:* Religio 112 or permission of instructor. (Odd years only.)

Religion 479. Seminar in Religion. (on demand)(3
Intensive study of a special subject with oral and written reports. Possible topics include Th Fourth Gospel, Apocalyptic Literature, Pauline Theology, Wisdom Literature, The Apostolic Pe riod. *Prerequisites:* Advanced standing and permission of the instructor.

Religion 495. Independent Study. (F,S)(3
Independent study or research on approved topics. May be repeated for credit.

PHILOSOPHY

Requirements for a Minor. Twenty-one semester hours.

Philosophy 151. Introduction to Philosophy. (F,S)(3
Both a study of the nature of philosophy, its aims, problems, and methods, and an exercise i philosophizing in which students clarify constructively and evaluate critically their own and othe understandings of life.

Philosophy 202. Logic. (on demand)(3
Cultivation of rational acuity through an examination of the procedures and limits of rationa discourse.

Philosophy 261. Philosophy of Religion. (F)(3
An introduction to basic modern concepts, issues, and methods in the philosophical examinatio of religion.

Philosophy 371. Ethics. (F)(3
Cultivation of reasoning in moral decision-making through an examination of traditional ethica theories, contemporary moral issues and the structure of moral decision.

hilosophy 376. History of Western Philosophy I: Ancient and Medieval. (on demand)(3)
Philosophical thinking in its cultural context, from its birth through the classical and medieval eras.

hilosophy 377. History of Western Philosophy II: Modern. (on demand)(3)
The rise and development of modern thought-forms through the nineteenth century.

hilosophy 378. History of Western Philosophy III: Contemporary. (on demand)(3)
Twentieth century western thinking and its nineteenth century backgrounds, with particular reference to modern idealism, phenomenology, existentialism, pragmatism and the analytical movement. *Prerequisite:* any philosophy course.

hilosophy 479. Seminar in Philosophy. (on demand)(3)
Intensive study of a special topic such as Epistemology, Metaphysics, Plato, Kant. *Prerequisite:* Permission of instructor.

hilosophy 495. Independent Study. (F,S)(3)
Independent study or research on approved topics. May be repeated for credit.

PHILOSOPHY/RELIGION

The Philosophy/Religion major is recommended for students interested in pursuing studies in the aditions of Western Thought and Values. It is a useful course for pre-professional training in such reas as law, teaching, and Christian vocations. It is also an appropriate major for students seeking road liberal arts backgrounds or preparation for graduate study in philosophy or religion.

The major consists of thirty hours including the following courses:
- Religion 111. Old Testament History, Literature and Interpretation
- Religion 112. New Testament History, Literature and Interpretation
- Religion 356. Contemporary Christian Thought
- Philosophy 151. Introduction to Philosophy
- Philosophy 202. Logic
- Philosophy 376. History of Western Philosophy I: Ancient and Medieval
- Philosophy 377. History of Western Philosophy II: Modern

The remaining three courses may be elected from courses in Religion or Philosophy at the 300 vel or above. It is strongly recommended that at least one of these courses be either Religion 479 r Philosophy 479.

DIVISION OF NATURAL SCIENCES

Robert W. Swanson, *Chairperson*
Biology — Chemistry — Computer Science — Environmental Studies
General Science — Mathematics — Physics — Science Education

BIOLOGY

Requirements for a Major: A major in Biology consists of the courses listed below plus an add tional 8 hours in Biology.

		Semester Hou
BIOL 111	General Biology	4
BIOL 232	General Zoology	4
BIOL 233	General Botany	4
BIOL 361	Genetics	4
BIOL 431	Cell Biology	
OR		
CHEM 421	Biochemistry	3
BIOL 441	Ecology	4
CHEM 111-112	General Chemistry	6
CHEM 131-132	General Chemistry Laboratory	2
GNSC 471	Science Seminar	1
One of the following groups of Physics courses		7-9
PHYS 111-112	Elements of General Physics	
PHYS 113	Elements of General Physics Laboratory	
OR		
PHYS 211-212	General Physics	
PHYS 213	General Physics Laboratory	

Those students seeking secondary certification must complete two semesters of physics laborator

Biology 331 and 334 are highly recommended as electives for students seeking secondary certi cation. Recommended additional cognates consist of Mathematics 241 and Chemistry 212, 311-31

Requirements for a Minor: Twenty-four semester hours in Biology are required. Biology 111, 2 and 233 must be included. Students seeking secondary certification must complete either the ar of concentration in science or major in mathematics, chemistry or physics.

Biology 109. Elements of Biology. (F,S,Sum)(
An introduction to the principles of modern biology including: biological chemistry, cell biolog modern and classical genetics. cellular energetics, and evolution. A survey of mammalian phy iological systems is also covered.

Biology 110. Elements of Biology Laboratory. (F,S)(
Optional laboratory course to accompany Biology 109. No credit will be given for Biology 1 without simultaneous or prior successful completion of Biology 109.

Biology 111. General Biology. (F)(
A course emphasizing general concepts of modern biology for majors and non-majors. Topi surveyed include cell biology, bioenergetics, molecular and Medelian genetics, reproduction, d velopment, evolution and ecology. Human relevance is stressed. Laboratory work is include This course is a prerequisite to all other courses in biology. *Prerequisites:* High school biology a chemistry strongly recommended; ACT Natural Science score of 25 or higher recommended f freshmen.

Biology 151. Medical Terminology. (F)(
The study of the specialized terminology of medical science. Recommended for pre-professior students, biology majors, allied health students, and students in other health-related fields. Tho seeking secondary certification cannot count this course toward certification requirements. T course does not meet the biological science requirement for teacher education. (Odd years onl

Biology 232. General Zoology. (F)(4)
A survey of the animal kingdom with emphasis on diversity, evolution, and environmental relationships. Additional topics include energy metabolism, taxonomy, reproduction, population phenomena, behavior and sociology. *Prerequisite:* Biology 111.

Biology 233. General Botany. (S)(4)
A survey of the organisms which possess cells walls including: Protoctista, Fungi, and especially the Plants. Emphasis is given to ecological and economic importances, morphology, and evolutionary relationships. The course also involves a brief review of major biological concepts such as cell structure, cell energetics, and classical and molecular genetics. *Prerequisite:* Biology 111.

Biology 321. Field Biology. (on demand)(3)
Field investigations including observation, collection, and identification of local fauna and flora are offered under discrete course headings including: Limnology, Ornithology, Entomology, Local Flora, Dendrology, and Mycology. Pertinent field data are collected and analyzed appropriately. Two one-hour lectures and one three-hour laboratory session per week.

Biology 330. Anatomy and Histology. (F)(4)
A study of the tissues, organs, and organ systems of vertebrates with emphasis on the human body in health-related sciences. (Odd years only.)

Biology 331. Human Physiology. (S)(4)
A study of the functioning of the human organ systems with normal and clinical considerations. *Prerequisites:* Chemistry 112 and 132. (Odd years only.)

Biology 334. Microbiology. (S)(4)
An introduction to the classification, morphology, physiology, and genetics of the bacteria, fungi, viruses, and micrometazoans, as well as their roles in nature, health, and industry. Laboratory work stresses techniques for the culture and identification of microorganisms. A portion of the course is devoted to immunology. *Prerequisites:* Biology 361. (Even years only.)

Biology 361. Genetics. (S)(4)
An introduction to the principles of inheritance from both classical and molecular perspectives. *Prerequisites:* Biology 232, 233, and Mathematics 131.

Biology 431. Cell Biology. (F)(3)
An indepth survey of the structure and function of a wide range of living cells with consideration of biochemical and biophysical bases of this structure and function. Certain characteristics of viruses are also considered. *Prerequisites:* Biology 361 and Chemistry 311. Prior completion of Biology 334 is desirable. (Even years only.)

Biology 436. Evolution. (S)(3)
An introduction to the theory and processes of evolutionary biology. Topics include the historical development of the discipline, the principle mechanisms by which it occurs, tempo and mode of speciation, both biological and geological sources of evidence, and the impact of evolutionary thought on biology and society. *Prerequisite:* Biology 361. (Odd years only.)

Biology 441. Ecology. (F)(4)
A study of the relationships between organisms and their abiotic and biotic environment including biogeochemical cycles, population dynamics, diversity, communities, and pollution of terrestrial and aquatic ecosystems. *Prerequisites:* Biology 361.

CHEMISTRY

Requirements for a Major: Thirty semester hours of Chemistry including Chemistry 111, 112, 131, 132, 212, 311, 312, 314 and 332. Science cognates consist of Physics 211, 212, 213, 214, 331, Mathematics 241, 242, and General Science 471.

Requirements for a Minor: Twenty-one semester hours including Chemistry 111, 112, 131, 132, 311 and either 212 or 411.

Chemistry 101. Introductory General Chemistry. (Sum)(4)
A study of the general principles including laws of definite and multiple proportion, stoichiometry, gases, electronic structure, chemical bonding, periodic relationships, chemical equilibrium and acids/bases. Laboratory activities included. Intended for students interested in a one-semester course in chemistry and recommended for students seeking careers in some allied health fields. *Prerequisite:* A working knowledge of algebra such as is acquired in two years of high school algebra.

Chemistry 111-112. General Chemistry. (F,S)(
A systematic study of the fundamentals and applications of the experimental and theoretical la of chemistry. Major topics include nomenclature, stoichiometry, chemical thermodynamics, eq librium, acid-base reactions, atomic and molecular theory and structure, chemical kinetics a nuclear chemistry. Examples and problems are drawn from all areas of chemistry. Concurre registration in General Chemistry Laboratory, Chemistry 131-132, is highly recommended for students. *Prerequisite:* A working knowledge of algebra such as is acquired in two years of hi school algebra, or Mathematics 131 (which may be taken concurrently), or a composite ACT sc of 21.

Chemistry 131-132. General Chemistry Laboratory. (F,S)(
Laboratory experiments in general chemistry that illustrate basic principles and develop laborato skills. Experiments are coordinated with the General Chemistry topics. Inorganic qualitative an ysis is included in Chemistry 132. Three hours of laboratory per week. Concurrent registration previous completion of Chemistry 111-112 is required. No credit may be received for Chemist Laboratory 131-132 without the simultaneous or prior completion of the corresponding lectu courses Chemistry 111-112.

Chemistry 212. Analytical Chemistry. (F)(
A study of important volumetric and gravimetric analyses presented from a modern theoretic standpoint. Also an introduction to the study of advanced methods of analysis including so newer instrumentation techniques. *Prerequisites:* Chemistry 112 and 132.

Chemistry 311-312. Organic Chemistry. (F,S)(
A course in the chemistry of organic compounds. Unitized laboratory work is designed to illustra the basic principles of organic chemistry. *Prerequisites:* Chemistry 112 and 132.

Chemistry 314. Physical Chemistry Laboratory. (S)(
A laboratory course designed to accompany Chemistry 332 and Physics 331.

Chemistry 332. Physical Chemistry. (S)(
A study of atomic structures and chemical bonding in terms of modern quantum theory. Top include molecular spectra, and chemical kinetics. *Prerequisites:* Mathematics 242 and Physics 2 (Odd years only.)

Chemistry 411. Inorganic Chemistry. (S)(
A systematic study of the structure, properties and reactions of non-carbon elements, with e phasis on the non-metals and the transition metals. Topics include atomic-molecular structure a bonding, physical methods of investigation, organometallic chemistry and bioinorganic chemist *Prerequisite:* Chemistry 312. (Odd years only.)

Chemistry 421. Biochemistry. (S)(
Study of chemistry, energetics and metabolism of biomolecules, such as, carbohydrates, protei lipids, nucleic acids, enzymes and vitamins with reference to living systems. *Prerequisite:* Chemist 311. (Even years only).

COMPUTER SCIENCE

Requirements for a Minor: Twenty-one semester hours consisting of Mathematics 241, Comput Information Systems 121, 221, 250, 310, 315 and an additional Computer Information Systems cou numbered 200 or above. Course descriptions are listed under Computer Information Systems.

ENVIRONMENTAL STUDIES

Requirements for a Minor: Twenty-four hours, to be chosen by the student, the student's maj advisor, and an advisor from Environmental Studies. Courses are also listed under the vario departments to which they relate. The required core: Environmental Studies 101 and 313, Biolo 109 or 111, and Economics 251. The remainder of the courses are to be chosen from other Enviro mental Studies courses or the following recommended electives: Biology 321, 441; Geography 2 Philosophy 371; Sociology 311, 371, 421 and certain experimental courses.

Environmental Studies 101. Man and the Environment. (F)(
A multi-disciplinary course in which basic ecological principles are developed and used to sho human impact on natural eco-systems. Topics include endangered species, impact of populati growth, land use and the management problems, food production and demands.

Environmental Studies 110. Physical Systems of the Environment. (S)(4)
A study of the physical environment as the home of man. Emphasis on distribution and interaction of environmental variables (weather, landforms, vegetation, soils, and climate). This course may be used to fulfill the physical science requirement for students seeking teacher certification. Laboratory activities included.

Environmental Studies 313. Environmental Policy. (F)(3)
A study of the decision-making processes and the consequences of alternative courses of action on environmental quality. Analyzes the impact of public opinion, the various branches of government and pressure groups on environmental/energy policies at the federal and state levels. *Prerequisites:* Environmental Studies 101 and an introduction political science course, or permission of instructor. (Odd years only.)

Environmental Studies 350. Our Geologic Environment. (S)(4)
Significance of regional and local geological features and processes in land use planning. Use of geological information to reduce conflicts in utilization of mineral and water resources and damage due to natural hazards. *Prerequisite:* Environmental Studies 110. (Odd years only.)

GENERAL SCIENCE

Neither a major nor a minor is offered.

General Science 124. Introduction to Physical Therapy. (S)(2)
A general orientation to the historical background, philosophy and professional ethics of physical therapy, interprofessional relationships between members of the health care team; concepts of health and disease; overview of the total medical spectrum, medical technology, modalities used in physical therapy, and orientation to clinical service departments and their administration.

General Science 471. Science Seminar. (S)(1)
A lecture/discussion of selected topics of interest, lead by faculty members of the Division of Natural Sciences, invited speakers, and student participants. May be repeated once; a student can earn a maximum of two credit hours through this course. All natural science majors must take this course at least once. *Prerequisite:* Natural science major with Junior or Senior standing, or permission of the instructor.

MATHEMATICS

Requirements for a Major: Thirty semester hours numbered 241 and above including Mathematics 241, 242, and two of the following courses: Mathematics 333, 402, 403. Computer Information Systems 121, Physics 211, 212, 213, and 214 are also required. Those seeking secondary certification must include Mathematics 301 and 333.

Requirements for a Minor: Twenty-one semester hours numbered 241 and above to include Mathematics 241, 242, and Computer Information Systems 121.

Mathematics 101. Pre-College Algebra. (F,S)(3)
This course is intended for students who need to improve their arithmetic and elementary algebra skills to take other mathematics courses such as Mathematics 131, College Algebra, or Mathematics 110, Applications for Mathematics for College Students. Specific topics to be discussed include numbers, fractions, algebraic expressions, polynomials, factoring, simplifying, laws of exponents, linear equations, simple graphs, and rational expressions.

Mathematics 108. Intermediate Algebra. (F)(3)
This course is intended for students with a weak background in high school algebra who want to know more about the subject and/or plan to take Mathematics 131, College Algebra. The course includes a review of the real number system (particularly integers and irrational numbers), operations with polynomials, operations with algebraic fractions, simplification of radical expressions, solutions of equations and inequalities (linear quadratic, higher order, and simultaneous), and an introduction to graphs and functions. Not open to students who entered Union College prior to Fall, 1992. No credit given for both Mathematics 101 and 108.

Mathematics 110. Applications for Mathematics for College Students. (F,S)(3)
Mathematics with applications to business, biology, and social sciences. Linear functions and inequalities, geometry, number bases, probability statistics, and consumer mathematics. Emphasis on problem solving techniques.

Mathematics 131. College Algebra. (F,S,Sum)(3
Brief review of intermediate algebra, including rational expressions, radicals, and exponents; solv ing equations,including quadratic equations; Applications; solving inequalities, including quad ratic inequalities; graphing equations; graphs of functions; combining functions and findin inverse functions; exponential and logarithmic functions; systems of equations.

Mathematics 132. Trigonometry. (F)(2
Similar triangles; right triangle trigonometry, trigonometric functions of the general angle; Lav of Sines; Law of Cosines; Identities; Inverse trigonometric functions; Complex numbers; Comple exponentials.

Mathematics 203-204. Structure of the Number System. (F,S)(3
Historical development of the numeration system from an intuitive to a logical approach base upon set theory, definitions of the basic operations on whole numbers and their properties ex tended to integers, rationals, and irrationals; study of why and how of algorithms for all opera tions; topics in informal geometry.

Mathematics 241. Introduction to Calculus and Analytic Geometry. (S)(4
Inequalities, the straight line, conic sections, limits, the derivative, differentiation of algebrai functions, applications of the derivative, extrema, and the antiderivative. *Prerequisite:* Mathematic 132 or permission of instructor.

Mathematics 242. Intermediate Calculus and Analytic Geometry. (F)(4
The integral, applications of the integral, logarithmic and exponential functions, trigonometri functions, hyperbolic functions, techniques of integration, L'Hospital's Rule and indeterminat forms, and improper integrals. *Prerequisite:* Mathematics 241.

Mathematics 243. Advanced Calculus and Analytic Geometry. (S)(4
Topics selected from polar coordinates, vectors, solid analytic geometry, partial differentiatior multiple integration, infinite series, and differential equations. *Prerequisite:* Mathematics 242.

Mathematics 301. Principles of Geometry. (S)(3
Mathematical Proof: conjunctions, disjunction, implications, truth tables. Proofs using triangle polygons, and circles. Transformations, area, space geometry, and non-euclidean geometries. *Pre requisite:* Mathematics 132 or 204. (Even years only.)

Mathematics 331. Introduction to Linear Algebra. (F)(3
Vector algebra in Euclidean spaces, lines and planes in space, matrices and linear equations groups, and rings. *Prerequisites:* Math 131 and permission of the instructor. (Odd years only.)

Mathematics 332. Linear Algebra. (S)(3
Vector spaces, subspaces, linear independence, linear transformations, determinants, inner produc spaces, orthogonality, and unitary transformations. *Prerequisite:* Mathematics 331. (Odd years only.

Mathematics 333. Modern Algebra. (on demand)(3
An introduction to abstract algebra including groups, subgroups, quotient groups, isomorphisn theorems, rings, and ideals. *Prerequisite:* Mathematics 241 or permission of the instructor.

Mathematics 372. Probability and Mathematics Statistics. (F)(3
Theoretical probability using point set approach, probability as a frequency ratio; probability fo finite sample spaces; conditional probability; joint and continuous distributions, binomial distri bution; Baye's theorem; statistical applications of probability; theory of sampling and variance *Prerequisites:* Mathematics 242, which may be taken concurrently, and permission of the instructoı (Even years only.)

Mathematics 402. Functions of a Complex Variable. (on demand)(3
Complex numbers, analytic functions, elementary functions of a complex variable. Cauchy's for mula, Liouville's theorem, Laurent's series, residues, contour integration, conformal mapping physical applications. (Even years only.)

Mathematics 403. Introduction to Analysis. (on demand)(3
Sets and functions, topological ideas, LUB property, real sequences, continuity, mean value theo rems, integration, definite integrals, Taylor's theorems, improper integrals, convergence of infinit series, power series, improper integrals with parameter. (Even years only.)

Mathematics 471. Differential Equations. (S)(3
Differential equations of first order and first degree, differential equations of first order and highe degree, differential operators and linear differential equations, reduction of order. *Prerequisite* Mathematics 242. (Even years only.)

PHYSICS

Requirements for a Major: Physics 211, 212, 213, 214, 312, 331, 401, and 411 plus an additional ht hours of upper level physics courses. Chemistry 314 and 332 may be included. Required science nates include Chemistry 111, 112, 131, and 132; Mathematics 241, 242, and 243; and General ence 471.

Requirements for a Minor: A minimum of twenty-one semester hours of Physics numbered 211 l above, including Physics 211, 212, 213, 214, 401, and either 312 or 331.

Requirements for Secondary Certification: A teacher education student who selects a major in ysics is required to complete Biology 111 or 109 and 110 as well as Physics 105 or Environmental dies 110. Those who select a minor in physics are required to complete one of the following: the a of concentration in science; the area of concentration in mathematics-physical science; or a ching major in either mathematics, biology, or chemistry.

ysics 105. Astronomy. (S)(4)
An introduction to the elements of astronomy. Constellation identification, telescope operation, olar features, life and death of stars, galaxies and cosmology. Experiments and activities will llustrate telescope use, star and constellation identification, analysis of data from photographs nd spectrum charts, etc.

ysics 111-112. Elements of General Physics. (F,S)(3)
These courses are intended for life science and non-science students. They may be taken separately nd in any order. Physics 111 topics include mechanics of motion; the properties of solids, liquids, nd gases; and thermal phenomena. Physics 112 topics include wave motion and vibrations; lectricity and magnetism; optics; and selected topics in modern physics. Does not count toward minor. *Prerequisite:* High school algebra or permission of the instructor.

ysics 113-114. Elements of General Physics Laboratory. (F,S)(1)
Laboratory experiments accompanying Physics 111 and 112 respectively to illustrate basic principles and develop laboratory skills. No credit may be received for these laboratory courses without oncurrent or prior completion of the corresponding lecture course.

ysics 211-212. General Physics. (F,S)(4)
Mechanics of solids, liquids and gases; laws of thermodynamics; kinetic-molecular theory, vibrating odies; wave physics; laws of Coulomb, Faraday, Ampere, Ohm, Joule, and Lenz; electromagnetism; optics. *Pre- or Corequisite:* Mathematics 242.

ysics 213-214. General Physics Laboratory. (F,S)(1)
A general physics laboratory course involving experiments in mechanics, heat, sound, electricity, nagnetism, and optics. Experiments are coordinated with Physics 211-212.

ysics 232. Basic Electronics Laboratory. (on demand)(3)
Theory and applications of solid state devices, power supplies, motors, transformers, A.C. and D.C. circuits and diagrams, circuit protections, control circuits. *Pre- or Corequisite:* Physics 112.

ysics 303. Relativity. (on demand)(3)
Einstein's Special Theory of Relativity, including relativistic kinematics and relativistic momentum nd energy. *Prerequisites:* Mathematics 131 and 132.

ysics 310. Statics. (S)(3)
Study of force systems on bodies at rest. Applications of conditions of equilibrium to coplanar and pace systems. Virtual work, centroids, moments of inertia, and products of inertia. *Prerequisite:* Physics 211. (Even years only.)

ysics 312. Electricity and Magnetism. (F)(4)
Electric charges, forces, field and potential with associated magnetic forces and fields; dielectric heory; capacitance, inductance, resonance, and oscillations; series and parallel DC and AC circuits; neasuring instruments; Maxwell's equations and electromagnetic waves. Four lecture hours per veek. Strongly recommend prior enrollment in Physics 232. *Prerequisites:* Physics 212 and Mathematics 243 and 471. (Odd years only.)

ysics 331. Heat and Thermodynamics. (F)(3)
Thermodynamic systems and processes, equations of state, PVT surfaces and real substances, laws f thermodynamics, energy equations, enthalpy, entropy, thermodynamic potentials, application f thermodynamics to simple systems. *Prerequisites:* Physics 212 and Mathematics 243. (Odd years nly.)

Physics 401. Principles of Modern Physics. (F)(3
Elementary concepts of quantum mechanics, selected topics in atomic and nuclear physics. *Pre requisite:* Physics 212 and Mathematics 242. (Even years only.)

Physics 411. Classical Mechanics. (S)(3
Motion of a particle, systems of particles, rigid bodies; moving coordinate systems; Lagrange equations; small oscillations. *Prerequisite:* Mathematics 243. (Odd years only.)

Physics 420. Experimental Physics. (S)(2
An upper-level physics laboratory course focusing on fundamental physical constants. Include computer simulations. The class consists of one lecture hour and one laboratory hour. *Prerequisites:* Physics 211, 212, 213 and 214. (Even years only.)

SCIENCE EDUCATION MAJORS (SPECIALIZATION COMPONENT FOR CERTIFICATION)

Students who wish to teach secondary science may choose one of the following three program (A) A Major (30 hours) in one of the sciences plus a certifiable minor in one of the other science or mathematics; (B) A mathematics-physical science area of certification; (C) A science area of con centration. Those seeking certification in the middle grades also have available an area of special zation in science.

All students seeking secondary certification in biology, chemistry or physics must take at leas sixteen semester hours in biology, chemistry, physics or environmental studies outside the majo requirements.

1. AREA OF CONCENTRATION IN MATHEMATICS-PHYSICAL SCIENCE

A total of 48 semester hours are required including:

		Semester Hour
CHEM 111-112	General Chemistry	6
CHEM 131-132	General Chemistry Laboratory	2
CHEM 212	Quantitative Analysis	
OR		
CHEM 411	Inorganic Chemistry	4
CHEM 311	Organic Chemistry	4
MATH 241-242	Calculus and Analytic Geometry	8
MATH 331	Introduction to Linear Algebra	3
	Mathematics elective	4
PHYS 211-212	General Physics	8
PHYS 213-214	General Physics Laboratory	2
	Physics electives	7
		48

At least 18 semester hours must be in courses numbered 300 or above. General Science 471 i highly recommended and may be counted in this 18 hour requirement. Students who choose thi area are urged to exceed the minimum semester hour requirement and complete 21 semester hour in each of two of the three fields (chemistry, mathematics, and physics).

A major or additional minors may be taken in the area. A teacher with such preparation woul be certified only to teach in the major or minor disciplines and all general interdisciplinary scienc courses at the secondary level.

. AREA OF CONCENTRATION IN SCIENCE

A total of 48 semester hours are required including:

		Semester Hours
OL 111	General Biology	4
OL 232	General Zoology	
OR		
OL 330	Anatomy and Histology	4
OL 233	General Botany	
OR		
OL 321	Field Biology	3-4
IEM 111-112	General Chemistry	6
IEM 131	General Chemistry Laboratory	1
IVS 110	Physical Systems of the Environment	4
IVS 350	Man's Geologic Environment	4
ISC 471	Science Seminar	1
IYS 211-212	General Physics	8
IYS 213	General Physics Laboratory	1
		36-37

Also included must be a minor in either biology, chemistry or physics. At least 18 semester hours ıst be in courses numbered 300 or above.

. TEACHING MINORS

A teacher education student who selects a minor in biology, chemistry or physics is required to complete one of the following: the area of concentration in science; the area of concentration in mathematics-physical science; or a teaching major in either mathematics, biology, chemistry, or physics.

PRE-PROFESSIONAL PROGRAMS

Students who have career interests in medicine, dentistry, veterinary medicine, optometry, or edical technology may fulfill the admissions requirements of respective professional schools by ırsuing a Bachelor's degree in biology or chemistry. Students may also arrange for transfer to a ofessional school after three years (ninety-six semester hours) at Union College. Upon completion one year of study at the professional school, students will be awarded their Bachelor's degree ›m Union College. (See section on Combined Degrees.)

Since admission requirements of professional schools vary considerably, all students having an terest in these fields are advised to select the professional school they wish to attend and choose e-professional courses accordingly. An academic advisor will be assigned who, working closely ith the student, will plan a program of study and assist with the admissions process into the ofessional school of their choice. For details of specific programs, the following faculty members ould be consulted:

Dentistry — Chandler
Engineering — Carter, Henshaw
Medical Technology — Chandler
Medicine — Chandler
Optometry — Swanson
Pharmacy — Swanson, Weeks
Physical Therapy — Chandler
Veterinary Medicine — Chandler

PHYSICAL THERAPY

Union College provides a two year curriculum which allows students to complete courses required r entrance into the Physical Therapists Assistant (PTA) program at Jefferson Community College Louisville or the Physical Therapy Program at the University of Kentucky in Lexington.

Union College and Jefferson Community College have entered into an agreement whereby stu-ents from southeastern Kentucky may work toward an Associate of Applied Science degree and ıalify to be a PTA. The student will take courses at Union College during the first two years and

complete the program at Jefferson Community College during the third year. Jefferson Commun College reserves two positions annually for qualified Union College students. To qualify for gra uation from this program, a student must also present a Red Cross First Aid Certificate earned with the last four years. Students who enter this program will be asked to state in writing their intent return to southeastern Kentucky to work as PTA's.

The Department of Physical Therapy at the University of Kentucky has approved Union's cours work for the two year Pre-Professional Phase of their program. Admission to the Professional Pha at the University of Kentucky is based on completion and is not guaranteed.

DEGREE IN MEDICAL TECHNOLOGY

Union College has cooperative agreements with University of Louisville and The Methodist Ho pital of Kentucky, Pikeville, in which the student attends Union College for three years and, up acceptance, enters the cooperating institution and receives clinical training in medical technolo for twelve months. On satisfactory completion of the program the student is awarded a bachelo degree in medical technology and should be qualified for a national certifying examination.

COMBINED DEGREE IN ENGINEERING

A Cooperative "Three-Two Plan" has been worked out with the University of Kentucky in whi the student attends Union College for three years pursuing certain pre-engineering courses in a dition to a solid program in liberal arts. At the end of the three years, upon the recommendation Union College, the student enters the cooperating university or any accredited engineering scho as a junior and in two additional years completes all the requirements for the B.S. degree in En neering. Both the B.A. or B.S. from Union College and a B.S. in Engineering from the cooperati university are awarded at the end of the fifth year.

DIVISION OF SOCIAL SCIENCES

James C. Raymondo, *Chairperson*
Appalachian Studies and Appalachian Semester
Anthropology — Behavioral Sciences — Criminal Justice — Geography
History — Political Science — Pre-Law — Psychology
Sociology — Area in Social Studies Education

ANTHROPOLOGY

nthropology 221. Introduction to Cultural Anthropology. (on demand)(3)
A survey of the archaeological and biological history of mankind as it relates to the development of man and his culture, with comparisons drawn between the cultures of primitive people and Western Civilizations.

nthropology 251. North American Indian Cultures. (S)(3)
The historical development of North American Indian technology, and the cross-cultural study of four diverse Indian cultures at the time of White contact, will be the main focus of this course. Economics, ecology, technology, role relations, medicine, politics and conflict will be the focus of study in each culture. (Even years only.)

BEHAVIORAL SCIENCES

The two departmental courses listed below are "core" courses in the Behavioral Sciences curriclum. Both courses are required as a part of the Psychology and Sociology majors or minors.

ehavioral Science 245. Basic Statistics: Theory and Application. (F,S)(3)
Basic concepts of descriptive and inferential statistics, illustrations of applications in the fields of sociology, psychology, business, education, and natural science. Students should demonstrate a proficiency in basic mathematics and algebra as determined by grades in Mathematics 100 or on a placement test.

ehavioral Science 341. Methods of Behavioral Science Research. (S)(3)
Techniques and philosophies of behavioral science research including experimental, quasiexperimental, survey, evaluation, field, and unobtrusive designs for the collection and interpretation of information.

ehavioral Science 495. Independent Study. (on demand)(1-3)

CRIMINAL JUSTICE

Requirements for a Major: Thirty semester hours of course work including the following: Criminal ustice 101, 201, and 301; Political Science 307 and 401; Sociology 363 and 464; and an additional ine semester hours chosen from the following: Criminal Justice 205 and 387, Psychology 202, 352, ociology 231, or certain experimental courses.

Requirements for a Minor: Twenty-one semester hours of course work including the following: riminal Justice 101, 201, and 301; Political Science 307; Sociology 363; and an additional six semester ours chosen from the following: Criminal Justice 205 and 387, Political Science 401, Psychology 202, 52, Sociology 231, 464, or certain experimental courses.

ssociate of Applied Science Degree in Criminal Justice

eneral Education Requirements		*Semester Hours*
HSC 245	Basic Statistics: Theory and Application	3
NGL 111	Freshman Composition I	3
NGL 112	Freshman Composition and Literature	3
NGL 212	Western Literature	3
IST 111	World History to 1500	3
OR		
IST 112	World History since 1500	3
OR		
IST 201	United States History to 1865	3
OR		
IST 202	United State History since 1865	3
SYH 111	Introduction to Psychology	3
OCI 131	Introduction to Sociology	3
nion College Liberal Core Science Requirement (IV A., B., or C. with lab)		4
nion College Liberal Core Humanities Requirement (II B., C., or D.)		3
lective Hours		6
		34

Criminal Justice Requirements		Semester Ho
CRJU 101	Introduction to Criminal Justice	3
CRJU 201	Criminal Procedure	3
CRJU 205	Introduction to Criminal Law	3
CRJU 301	Security Administration and Crime Prevention	3
Select at least six of the following courses:		
CRJU 387	Criminal Justice Practicum	3
PLSC 307	Criminal Justice Administration	3
PLSC 401	Public Policy and Criminal Justice	3
PSYH 202	Forensic Psychology	3
PSYH 352	Abnormal Psychology	3
SOCI 231	Juvenile Delinquency	3
SOCI 363	Sociology of Corrections	3
SOCI 464	Sociology of Deviance and Criminology	3
		30
	Total Associate Degree Hours	64

Criminal Justice 101. Introduction to Criminal Justice. (F)
An introduction to the criminal justice process including the areas of criminal justice administ tion, the police, the courts, and corrections.

Criminal Justice 201. Criminal Procedure. (F)
The law pertaining to the rights of defendants to criminal charges including: theories of respo sibility, exclamatory matters, criminal trial procedures, classifications of evidence, presumptio relevance, expert testimony, testimonial privileges, hearsay, confessions, and impeachment.

Criminal Justice 205. Introduction to Criminal Law. (S)
An introduction to criminal law including the origins and principles of criminal law, crimi liability, and crimes against persons and property.

Criminal Justice 301. Security Administration and Crime Prevention. (S)
The study of the techniques and devices utilized by private industry, commercial and retail stor and community agencies for providing on site security and crime prevention.

Criminal Justice 387. Criminal Justice Practicum. (on demand)
Criminal justice practicum consists of an eighty hour field placement in one of the areas of crimi justice: corrections, courts, or police.

Please see the relevant sections of the catalog under Political Science, Psychology, and Sociolo for a description of the remaining courses in the Criminal Justice degree programs.

GEOGRAPHY

Geography 101. Introduction to Geography. (S)
Emphasis on the concepts of place, region, spatial interaction, landscape interpretation and lan scape evolution. Deals with the graphic media of geography — maps, graphs, scale models. Ca studies illustrate geographic principles to familiarize students with various parts of the world. F future teachers as well as students of the natural and social sciences.

Geography 241. Geography of Appalachia. (on demand)
A systematic analysis of the physical, demographic, economic and cultural characteristics of t Appalachian landscape, with comparative significance for other regions. Includes field stu (Even years only.)

HISTORY

Requirements for a Major: Thirty semester hours of history including History 111, 112 and 3 At least 12 hours must be U.S. History and 12 hours must be non-U.S. History. Military Science 2 may be counted toward the U.S. history requirement. Humanities 320 may also be counted towa the history major or minor.

Requirements for a Minor: Twenty-one semester hours in history including History 111 and 11 At least 9 hours must be in U.S. History and 9 in non-U.S. History. Military Science 202 may counted toward the U.S. history requirement.

istory 111. World History to 1500. (F,S)(3)
Survey of the institutions, culture, and thought of major world civilizations to 1500. The course will focus primarily on Western civilization, with some attention given to the development of China, India, the Americas, and Africa.

istory 112. World History since 1500. (F,S)(3)
Survey of world history during the period of European expansion and colonial domination.

istory 201. United States History to 1865. (F)(3)
A survey of American history through the Civil War, tracing the development of the American nation. Stress is placed on the nature of colonial society; the American Revolution; the creation of a national government; the influence of Jackson, and the Civil War.

istory 202. United States History since 1865. (S)(3)
A survey of American history to present times tracing the rise of America as a world power. Emphasis is on the changes of industrialization; the loss of civil rights; protest and reform; the Depression; and American influence in the world.

istory 233. History of Appalachia. (F)(3)
A survey of the region from settlement to the present time. The course focuses especially on the impact of the frontier experience, the Civil War and industrialization. "How is Appalachia both similar to and different from the rest of America?" is a major question addressed by the course. (Odd years only.)

istory 241. American Economic History. (F)(3)
Examination of the economic forces shaping the development of the American nation. Topical consideration of mercantilism; the rise of capitalism; slavery; the shocks of industrialization; the New Deal; and criticism of American economic power and capitalism. (Odd years only.)

istory 300. Historical Research and Methods. (S)(3)
Gathering and criticism of data; bibliographies and aids; problems in historiography, composition analysis, and the final monograph.

istory 311. United States Colonial and Revolutionary Eras (1600-1815). (F)(3)
An examination of the conflicting historical interpretations of these eras. Topics emphasized will be Puritanism; Colonial society; reasons for the Revolution; the meaning of the constitution; and the nation's early problems. (Even years only.)

istory 312. Jacksonian Era & the Civil War (1815-1865). (S)(3)
Emphasis on the conflicting historical interpretations of Jacksonian American and the Civil War. Topics include the Second Political Party System; slavery; expansion; and the causes of the Civil War. (Even years only.)

istory 313. Industrial America (1865-1919). (F)(3)
A consideration of the conflicting historical interpretations of the period. Topics emphasized include the loss of Civil Rights; the nature of the Gilded Age; Populist and Progressive Reforms; and World War I. (Odd years only.)

istory 323. Latin America. (S)(3)
Survey of Latin American history from the discoveries by Columbus to the present. (Odd years only.)

istory 342. History of Britain. (F)(3)
British history from the War of the Roses to the present. Emphasis will be on political and institutional development and the role of Britain in the world, including the rise and decline of the British Empire.

istory 345. American Constitutional History: Civil and Political Rights. (S)(3)
An examination of the influence of the Supreme Court with primary stress given to political and civil rights. Major consideration is the modern and Warren Supreme Court. (Even years only.)

istory 351. Europe to 1713. (F)(3)
History of Europe from 1350 to 1713. Course will cover the Renaissance, the Reformation, the counter-Reformation, the decline of feudalism, the rise of secularism, and the origin and development of the national state. Focus will be on changes in thought and belief. (Even years only.)

istory 352. Europe since 1713. (S)(3)
History of Europe from 1713 to the present. Course will cover the enlightenment, mercantilism, economic and imperial colonialism, domestic revolutions, the Napoleonic era, the industrial revolution, the Concert of Europe, major intellectual trends, and the world wars. Focus will be on political change. (Even years only.)

History 361. Middle East History. (F)
An introduction to the history of the Middle East from the beginnings of Islam to the present da Focus will be on Islamic institutions and culture, the modernization of Middle Eastern gove ments, the struggle by various peoples for political independence, the course of the Arab-Isra conflict, and contemporary developments in the region.

History 421. The Middle Period (1821-1850). (S)
A detailed examination of Jackson, politics, and the culture of the period. Stress is placed reform and the predominance of change in American life, and conflicting interpretations of t period. (Odd years only.)

History 446. History of Russia. (Sum)
Russian history since 1689. Survey of the political and social changes in Russia from the time Peter the Great to the present, including an extensive review of the origins and development the modern Soviet state. (Even years only.)

History 470. Twentieth Century America. (F)
Selected topics on the nation's history since 1900, including the New Deal, Viet Nam, and Wat gate. (Even years only.)

History 495. Independent Study. (F,S,Sum)(1-

HISTORY AND POLITICAL SCIENCE

Requirements for a Major: Thirty-nine semester hours including at least twenty-one semest hours of history, twelve semester hours of political science, and six additional elective hours.

Specific requirements include: History 111, 112, 201, 202, 300, at least one additional course United States history, at least one additional course in non-United States history, and Political Scien 101. Military Science 202 may count toward the United States history requirement. Humanities 3 may count toward the non-United States history requirement. An additional nine hours are requir in political science. Environmental Studies 313 may count toward the political science requiremen Certain experimental courses may count toward the requirements for the United States history, no United States history, and political science requirements. The remaining six hours of electives m be chosen from any of the courses not used to meet a previous requirement toward the maj Teacher certification in the history and political science major is available; students should cons with an academic advisor for more information.

POLITICAL SCIENCE

Requirements for a Minor: Twenty-one semester hours, including Behavioral Science 341 ar Political Science 101. Environmental Studies 313 may count toward the minor.

Political Science 101. American National Government. (F)(
A survey of the principal characteristics of the American National Government; examination constitutional principles, federalism, political participation, institutions of government, and t politics of public policy.

Political Science 231. International Politics. (F)(
Basic historical, economic, and cultural factors in the international political system. The rise ar development of Western nation-state systems; the foundations of national power; sovereignt nationalism and imperialism; the development of international organizations and cooperation.

Political Science 305. American Political Parties and Politics. (F)(
The organization, functions, and practices of political parties in the United States, their metho of influencing public opinion, their role in nominations and elections, and their impact on popul government. (Odd years only.)

Political Science 307. Criminal Justice Administration. (S)(
A study of the administrative principles and management practices of criminal justice organiz tions including: the police, courts, and correctional facilities.

olitical Science 308. The American Presidency. (F)(3)
Analysis of the institution of the presidency, its functions, formal and informal relationships, and its limitations within the American political system. (Even years only.)

olitical Science 401. Public Policy and Criminal Justice. (F)(3)
The study of policy questions in the criminal justice system. Particular emphasis is placed on a detailed examination of the major policy issues that link crime, politics, administration, and the law.

olitical Science 460. Political Philosophy. (S)(3)
The chronological and thematic examination of perennial issues in political science including liberty, justice, equality, political obligation, and political authority as developed over time by the political philosophy of Greek and Latin philosophers, Medieval thinkers, and modern theorists representing various world-wide perspectives. (Odd years only.)

olitical Science 461. Administrative Management. (on demand)(3)
Methods of applying administrative principles to the operation of government agencies. Relevance of administrative theory to management procedures in government; the relation of policy formation and implementation to the administrative policy system environment.

PSYCHOLOGY

Requirements for a Major: Thirty semester hours, including Behavioral Sciences 245, 341, Psychology 111, 352, and 460.

Requirements for a Minor: Twenty-one semester hours including Behavioral Sciences 245, 341, and Psychology 111.

sychology 111. Introduction to Psychology. (F,S)(3)
Emphasis on the study of human behavior and the ability of the individual to make adjustments to his environment.

sychology 201. Psychology of Personal Adjustment. (on demand)(3)
Factors determining the development of personality, principles of mental health, and problems involved in the dynamics of human adjustment.

sychology 202. Forensic Psychology. (F)(3)
An application of psychological principles to the criminal justice system. Topics include: the relationship between the legal and mental health systems, the assessment of criminal responsibility, the psychodynamics of criminal behavior, and intervention strategies.

sychology 210. Child Development. (on demand)(3)
Emphasis on recent child development theories with laboratory experiences with children on a one-to-one basis.

sychology 330. Social Psychology. (F)(3)
Major emphasis is on problems involved in human relations. Designed to help the individual to understand and adjust to group thought and action. Attention is given to recent psychological and sociological research in human relations.

sychology 352. Abnormal Psychology. (S)(3)
Mental disorder, changing conceptions of normality, the more common forms of mental disorders, their psychological interpretation, principles of effective mental hygiene, and contemporary approaches to psychotherapy.

sychology 361. Psychology of Learning. (on demand)(3)
Basic concepts and principles of learning with emphasis upon human and animal laboratory studies.

sychology 402. Counseling Theories and Techniques. (S)(3)
Basic theories, types, and techniques of counseling. Practice in individual and group techniques of interviewing. Permission of the instructor required.

sychology 460. Theories of Personality. (F)(3)
Nature of personality structure and dynamics. Classical psychoanalysis, social psychological and stimulus-response theories included.

sychology 461. History and Systems of Psychology. (on demand)(3)
Origins of psychological thought within science and philosophy, tracing the development of systems and theories within German, British, and American psychology.

Psychology 470. Theories of Learning. (S)(
Basic fundamentals of learning theory as formulated by such theorists as Thorndike, Pavlo Guthrie, Skinner, and Hull. Attention is given to the empirical support of various theories.

Psychology 495. Independent Study. (F,S,Sum)(1-

SOCIOLOGY

Requirements for a Major: Thirty semester hours, including Behavioral Sciences 245, 341, Sociolog 131, 460. Psychology 330 is strongly recommended and will be credited toward the thirty semest hour requirement.

Requirements for a Minor: Twenty-one semester hours, including Behavioral Sciences 245, 34 Sociology 131. Psychology 330 is strongly recommended and will be credited toward the twent one semester hour requirement.

Appalachian Semester courses, Sociology 349 and 422, may count toward both the major and mino

Sociology 131. Introduction to Sociology. (F,S)(
The social interaction of persons and groups; man's cultural heritage and social nature; analys and principles of group life; forms of collective behavior; the process of socialization; social stru ture, interaction and reorganization, including race relations and social class; a variety of soci institutions; the family, education, religion; the economy and politics; social change.

Sociology 231. Juvenile Delinquency. (F)(
An introduction to the study of juvenile delinquency and the juvenile justice system. The cours investigates the topics of juvenile law, theories of causation procedural issues, and their interr lationships.

Sociology 241. Sociology of Appalachia. (F,S)(
Uses the basic principles and concepts of sociology to study life in the Appalachian region. Th areas of study include socio-economic class, culture, folklore, social institutions, the family, religio schooling, poverty, and development.

Sociology 251. Current Socio-Economic Problems. (F)(
Scientific understanding of social problems; problem areas in contemporary American societ types of personal disorders and role impairment; the influences of social change on the structur of society. Attention is also given to the question of why certain forms of deviance become define as social problems.

Sociology 255. Selected Topics in Political Sociology. (on demand)(
A series of seminars and small group discussions organized around a set of case readings in th area.

Sociology 271. Marriage and the Family. (F,S)(
Background experiences in the lives of young people leading up to courtship and marriage; th establishment and functioning of the home, with related biological and social factors. Emphasi upon changing attitudes toward family relationships, some of the problems involved and sug gested solutions.

Sociology 311. Human Ecology. (S)(
Population distribution, growth, composition, and its relevance to current economic, social, an political problems.

Sociology 353. Minority Groups. (F)(
A social scientific study of the origin and organization of minorities and their effect on society with particular emphasis on minorities in the United States.

Sociology 363. Sociology of Corrections. (S)(
The study of the origins and organization of corrections in the United States. Topics includ correctional ideologies, the social structure of various types of correctional facilities, probation and parole.

Sociology 371. Social Institutions. (on demand)(
An examination of the structure and function of social institutions, with primary orientation withi the American milieu. Particular emphasis on socialization, stratification, social change, and rela tions among institutions.

Sociology 372. Social Stratification and Inequality. (S)(
An analysis of the social stratification system including the concepts of class, status, prestige income, and wealth; and, the impact of social stratification on American society. (Odd years only.

ociology 387. Field Practicum in Sociology. (on demand)(3)
The field practicum in sociology is designed to give social science majors practical experience in a professional field related to sociology. Field placements will include such diverse experiences as working in the county clerk's office, pre-trial services, social services and other programs. *Prerequisites:* Behavioral Science 245, and either Anthropology 221, Psychology 111 or Sociology 131, and permission of the instructor.

ociology 421. Rural and Urban Sociology. (F)(3)
Comparative and interrelated study of urban and rural life considering physical, institutional, social and economic factors of modern life in cities and in the countryside. (Even years only.)

ociology 433. Social Change. (on demand)(3)
This course introduces students to the problems of development and change. Examples will be drawn from Third World models of development, nationalism, imperialism, environmentalism, and human rights. The course is interdisciplinary, with emphasis on historical, economic, environmental and sociological aspects.

ociology 460. Sociological Theory. (F)(3)
The major theories which have proved useful in investigating the nature of society are examined as cultural products, ideologies, and scientific models. Special attention is given to major figures such as Comte, Durkheim, Weber, Merton, C. Wright Mills, White and Sorokin in the emergence and convergence of their theoretical development. Lecture and discussion in a seminar setting.

ociology 464. Sociology of Deviance and Criminology. (S)(3)
This course will develop an understanding of the social definitions and implications of deviance. Various types of deviant behavior and relevant theories of society will be addressed.

ociology 470. Collective Behavior and Social Movements. (Sum)(3)
An analysis of the theoretical interpretations made by social and behavioral scientists of individual and collective behavior in crowds, demonstrations, disasters, social movements, riots, and political revolutions in Western Culture focusing on the United States from 1870 to the present.

ociology 495. Independent Study. (on demand)(1-3)

APPALACHIAN STUDIES

An interdisciplinary minor in Appalachian Studies is available to interested students. Courses nvolving the study of Appalachia may be found throughout this catalog.

Requirements for a Minor. Twenty-one semester hours chosen from the following: Behavioral ciences 341 or History 300; Environmental Studies 313 and 469; Geography 241; History 233; and ociology 241. Participation in the Appalachian Semester may also be counted toward a minor in ppalachian Studies.

APPALACHIAN SEMESTER

Deborah J. Thompson, *Director*

The Appalachian Semester offers mature students a unique educational opportunity to devote heir full time to studying the Appalachian region — its strengths, its problems, and its challenges. he program's objectives are to promote in-depth awareness and understanding of life in Appalachia rom an interdisciplinary point of view. This comprehensive academic program, which includes both lassroom and field experience, provides 15 semester hours of credit in a variety of disciplines and ffers the student the opportunity to become actively involved in a unique part of American society.

The following courses comprise the Appalachian Semester. Students must complete an application vith the Director prior to enrollment in this program.

ociology 345. Appalachian Semester Orientation Seminar. (F)(3)
A multidisciplinary introduction, within the context of regional unity and diversity, to mountain society, folk culture, literature, music, religion, ethnic groups, geography and history.

ociology 349. Political Economy of Appalachia. (F)(3)
An analysis of the political economy of the Appalachian Region, e.g., settlement patterns; subsistence and commercial agriculture; timber, coal, textiles, and tourism; land ownership and land use; the corporate sector; taxation; government programs and planning; and issues of external and internal power relationships.

Sociology 422. Social Institutions in Appalachia. (F)(
A theoretical and observational analysis of the cultural and social characteristics of the Appalachi Region. Special emphasis will be given to the contemporary Appalachian culture and to t interaction of mountain people with the broader forces of social change at work in mode America.

Sociology 487. Appalachian Field Practicum/Research. (F)(
Each Appalachian Semester student, in consultation with the program coordinator, will devel a specialized field experience. This course may be either experiential learning in a service institutional setting, or directed study on a regional topic. Academic credit is available in Englis history, sociology, anthropology, psychology, or social work, and in other disciplines on a neg tiated basis as necessary and feasible.

AREA IN SOCIAL STUDIES

An area of concentration in social studies consists of a minimum of forty-eight semester hours include: a minimum of seven courses in history for a total of at least twenty-one semester hou with at least three courses in United States history, three courses in non-U.S. Western history, a one course in non-Western history. History courses numbered 381 and 481 are special topics cours that may count toward either the U.S. history or the non-U.S. Western history requirement depen ing on course content.

The remaining twenty-seven semester hours credit may be selected from certain courses in t areas of anthropology, economics, geography, political science, psychology, and sociology. Soc studies subjects in which a student has completed nine or more semester hours shall be designat as concentration areas on the certificate.

Area concentrations are available in the fields of: economics, political science, psychology, a sociology. Students should consult with an advisor for all details and program requirements, a are responsible for meeting all social studies curriculum plan requirements.

PRE-LAW

Most law school admissions committees require a student to have a four-year college progra leading to the Bachelor of Arts or Bachelor of Science degree plus an acceptable score on the La School Admissions Test. Regardless of the major, elective hours in accounting, business, histo political science, philosophy, and English prove helpful. Students should consult with a pre-la advisor no later than the junior year.

EDUCATION CERTIFICATION IN THE SOCIAL SCIENCES

Students interested in pursuing education certification in one of the social science disciplines areas of concentration are urged to consult with the appropriate faculty in both the department education, and the division of social sciences for guidance in the scheduling and sequencing courses.

CAMPUS INFORMATION

Location, Campus and Buildings

Union College is located in Barbourville, a residential town of 3,500, on U.S. highway 25E midway between Lexington, Kentucky, and Knoxville, Tennessee. The historic Wilderness Road runs along the eastern edge of the campus. Cumberland Gap National Historical Park is thirty miles away. The Doctor Thomas Walker State Shrine is four miles from the campus and in adjoining counties are Cumberland Falls State Park, Levi Jackson State Park, and Pine Mountain State Park.

On one of the most picturesque campuses of the South, Union College is proud of its Georgian buildings. Shaded by overhanging elms, the red brick buildings give the campus a majestic charm of dignity and beauty.

Speed Hall, (Administration Building), 1897-1905. A gift from the estate of Mrs. Fanny Speed of Louisville, KY. Her bequest also partially financed Centennial Hall and Stevenson Hall.

Centennial Hall, (formerly the Classroom Building), 1907.

Stevenson Hall, Men's Dormitory, 1907; wings added 1957.

Baldwin Place, the home of the President, 1925. The gift of Mr. and Mrs. F.E. Baldwin, Elmira, New York.

Data Processing Center/Post Office Building, (formerly Maintenance Building), 1938, originally equipped by a gift from the estate of Robert Norton, New Albany, Indiana.

Abigail E. Weeks Memorial Library, 1941, originally furnished by a gift from Mrs. Abbie E. Stewart. Expanded, 1987.

Pfeiffer Hall, Women's Dormitory, 1942; wing added 1960. The original wing was a gift from the estate of Mr. and Mrs. Henry Pfeiffer, of New York City.

Conway Boatman Chapel and Fine Arts Building, 1949.

College Courts, residences for married students, 1954; expanded in 1964.

College Park Drive, 1960, faculty residential area.

Langford Apartments, 1962. Gifts from the estates of Miss Mary Kyle Dugan and Mrs. Mary Gilbert Langford in memory of Mr. and Mrs. George Langford. Housing for faculty a staff.

Physical Education Building, 1964, and Jol M. Robsion Arena, 1992, including the Swi ming Pool, 1957.

Lakeside Hall, Men's Dormitory, 1964.

Frances Patridge Student Center, renovat 1991 (the original Student Center was built 1964).

Mahlon Miller Science Center, 1973.

Religious Life Center, 1975.

Lakeside Center, houses the Division of S cial Sciences and Adult Basic Education.

Maintenance Building, 1990.

Soldiers and Sailors Memorial Intramu Center, (formerly Dramatic Arts Center), 19 renovated 1990.

Myrtle Cole Minton Cafeteria, 1991.

Jack and Juanita Phillips Athletic Fiel and Sports Complex, 1991.

Milton H. Townsend Library Annex, 199

Publications

Union College Bulletin — An official qua erly bulletin, one issue of which is the catal number. The bulletin is sent free on request.

Parent's Bulletin — A publication to infor parents of activities on campus.

Union Express — A newspaper published b the journalism program.

Union College Alumnus — A bulletin pu lished by the Alumni office.

Stespean — The yearbook, published a nually by a college student staff.

Union and You — A publication that co bines the official calendar and institutional p icies. This is the student handbook.

Student Organizations

Students have the opportunity of partic pating in and developing leadership throug a number of campus organizations. Some these are departmental, some are limited honor students in their fields, many are ope to all interested students. Each has a facul sponsor and some include faculty in the membership. The following are official clu and organizations as approved by the facul

Union College. Campus organizations must e each year for sanction to operate and new ganizations must apply to be recognized and nctioned. The Vice President for Student Life the administrative contact for organizations ıd for their requests for funds from student tivities monies.

Academic Team — An opportunity to par-ıipate in a multi-campus quick-recall league.

Alpha Psi Omega — A national honorary eatre fraternity. Union's Zeta Chi chapter rves to encourage participation in the col-ge's theatrical activities and to develop larger ıd better informed theatre audiences.

Appalachian Wilderness Club — A group explore the outdoors through hiking, camp-g, and caving.

Baptist Student Union — An organization eking to provide Christian fellowship on and f campus leading to commitment to Christ; eks to provide training for a life of christian rvice; seeks to provide spiritual support for l students.

BLTN (Better Late Than Never) — An or-ınization seeking to provide information, so-al outlets, counseling, and emotional support r non-traditional students (those who have perienced a gap between their secondary ed-cation and college or an interruption in their llege careers).

Black Student Alliance — An organization eking to promote cooperation, fellowship nd solidarity among student groups with a ecial concern for the needs of minority stu-ents on the Union campus.

Business Club — A business organization romoting scholastic achievement, service to e community, development of leadership po-ntial, social interaction, and increased aware-ess of the business world.

Campus Activities Board — A student or-anization to plan and manage the primary mpus activities calendar and its scheduled vents. The Associate Dean for Student Life rves as the primary advisor. The board seeks provide support and encouragement to in-ividuals and organizations toward creating a oad range of activities.

Chess Club — A club seeking to provide an mosphere for intellectual challenge and com-etition.

Collegiate 4-H — This club seeks to pro-ote, exercise, maintain, and increase interest in 4-H local through international levels. A service-oriented organization.

Commuter Council — An organization seek-ing to explore the needs, interests, and prob-lems facing non-residential students. The Commuter Council seeks to plan and manage activities and services for non-residential stu-dents. The Dean of Students serves as advisor to this council.

Dog Pound — An organization to encourage school spirit; increase campus participation in Union athletic events; and create a spirit of un-ity among students, faculty, administration and staff.

Environmental Organization — This organ-ization serves to promote environmental awareness through informational services and non-violent direct action.

Fellowship of Christian Athletes — An or-ganization that serves to present to students, athletes and coaches the challenge and adven-ture of receiving Christ and serving Him; seeks to promote athletic involvement and spiritual growth. Not limited to student-athletes.

Gamma Beta Phi — A national honor society promoting scholarship, leadership, and good citizenship at Union College.

International Student Association — An or-ganization to provide an environment where students from different countries/cultures can exchange ideas/views and develop enjoyable friendships.

Intramural Council — An organization serv-ing to plan and manage an active broad-based and competent program of intramural leisure sports activities for the women and men of the campus. The Intramural Director serves as co-ordinator and advisor to the Intramural Council.

Iota Sigma Nu — An honor society to pro-vide recognition for honor students by uniting them in an organization which encourages high ideals, promotes diligence in study, and rewards excellence in scholarship.

Modern Culture Study Club — A group whose purpose is to study modern culture with an emphasis on the dramatic arts, through group discussions, films, readings, and lectures.

National Education Association—Student Program (NEA-SP) — A national pre-profes-sional organization for men and women plan-ning to pursue teaching as a career.

Newman Club — An organization seeking to provide fellowship for Christian students, particularly for Catholic students on campus.

Patridge Student Center Board — A student and staff advisory board which serves to promote accessible, active, proportional, creative use of student union facilities. This is inclusive of the Intramural Center.

Pep Band — Provides opportunity for students and staff to play instruments in support of special campus events.

Phi Delta Kappa — An international professional fraternity for men and women in education.

Pizzazzers — Seeks to provide entertainment for college athletic and community events through dance team performances.

REFLECTIONS — A literary magazine providing encouragement and opportunity for expression of creative writing and publishing on the Union campus.

ROTC — A program which provides college trained officers for regular United States Army, Army Reserve, and Army National Guard.

Science Society — An organization to provide a forum for the discussion of scientific issues, to stimulate interest in the natural sciences.

Social Science Club — An organization to provide interest in the social sciences and to provide extra-curricular activities related to topics in the social sciences.

STESPEAN — Responsible for producing a college yearbook.

Student Government Association — Provides opportunities for students to experience campus government and to examine quality-of-life issues of the campus. Seeks to assure reasonable due process in campus living.

Union College Service Organization — An organization sponsored by Campus Ministry and supported by the Fellheimer Trust, which encourages and coordinates volunteer service on the campus and in the surrounding communities by students, faculty and staff.

Union College Singers — A vocal ensemble that performs in chapel, Christmas concert, spring concert, graduation, tours and festivals.

Union College Student Ambassadors — A student service organization whose purpose is to introduce new students and guests to car pus life and its facilities. Activities include O entations, Parent's Weekend, Senior Da Homecoming and hosting special guests. Mer bers participate in an annual regional orient tion conference.

UNION EXPRESS — Responsible for th regular production of a campus newspaper.

United Methodist College Fellowship Serves to provide opportunities for stud prayer, fellowship and service with Unite Methodist sponsorship and support.

Athletics

Union College is a member of the Kentuck Intercollegiate Athletic Conference (KIAC), th Mid-South Football Conference (MSFC), th Kentucky Women's Intercollegiate Conferen (KWIC), and the National Association of Inte collegiate Athletics (NAIA). The college pr motes athletics for physical development an as a vital part of the program of extra-curricul activities. The program emphasizes the prote tion of the best interests of the student athlet Union teams are noted for "clean" sport an competitive spirit. Sport for fun and charact building is fundamental. In intercollegia competition for men, the College is repr sented by varsity teams in football, basketba soccer, swimming, tennis, golf, cross-countr and baseball.

Separate women's teams are active in ba ketball, volleyball, swimming, tennis, socce cross-country, and softball and compe against women's teams from other colleges an universities in the area.

In addition to the varsity sports competitio for men and women, Union sponsors a varsit cheerleading squad. The cheerleading squad open to both men and women and perform a home football and basketball contests.

Intramural Activities

The intramural program is directed by th Associate Dean for Student Life. Union Colleg sponsors intramural activities in touch footbal basketball, free-throwing, badminton, softbal tennis and volleyball to have a "sports for all program. The intramural organization is, i general, made-up of men's and women's ir dependent teams. The program includes bot

:am and individual sports. No college credit given for intramurals, but everyone is urged) take part.

;tudent Conduct

Each student is expected to conduct himself t all times according to the rules of good so-ety. This obligation includes compliance with ederal, State and local laws and adherence to ollege regulations. As members of a free soci-ty, students are always free to peacefully and wfully petition for amendment or modifica-on of the various laws as well as the college egulations. However, the rights of the student ody as a whole and the College as an insti-ution of higher education supersede the rights f any individual student or any group of stu-ents. Accordingly, not in an attempt to stifle issent, but rather to perpetuate an environ-ent where the student may peacefully pursue is studies, actions which are disruptive to the ormal functions and operations of the College vill not be tolerated. Students who are disor-erly in conduct, or unmindful of the rights of thers, may be required to withdraw from the ollege.

No student shall possess or use alcoholic everages when on college property or when way from the campus representing the Col-ege in any way, i.e., as a participant or spec-ator at a College athletic event or other college unction. Any student violating this regulation nay be required to withdraw from the College.

Union College students are obliged to show iscretion, good judgment, and strong respect or Christian principle in all interpersonal re-ationships.

The sale, possession, or use of drugs or sub-tances in violation of the Federal, State, or lo-al laws is prohibited. Any student who legally sells, possesses, or uses such drugs will e subject to criminal prosecution by the ap-ropriate law enforcement agencies and also nay be suspended or expelled. It is the an-ounced policy of Union College to cooperate ully with the various law enforcement officials n the enforcement of the drug laws as with all ther laws. A student's lawful use and posses-ion of certain drugs prescribed by a qualified nedical practitioner such as a physician, den-ist, or optometrist is, of course, permitted.

Guns, firearms, and explosives of any kind re forbidden in the residence halls or on the campus. Students may be expelled for failure to abide by this rule.

Gambling in any form is strictly forbidden.

The complete Student Conduct Code is printed in UNION AND YOU, the Student Handbook. The Dean of Students serves as the chief discipline officer for student conduct for the College.

Union College expects good housekeeping from all on-campus resident students. Residents who fail to keep their rooms in satisfactory condition may have their housing contract revoked. The College reserves the right to enter and inspect the rooms of students at any time.

The academic conduct code is printed in UNION AND YOU, the Student Handbook. The Vice President for Academic Affairs is the chief academic discipline officer for the College. The Student Code defining procedures for dealing with academic dishonesty can be obtained in the office of the Vice President for Academic Affairs.

Social Life

Students are encouraged to accept every legitimate opportunity to engage in social functions. The faculty emphasizes the value of well-directed social activities. Student organizations, the faculty, and local churches make desirable contributions to the promotion of social life. The Associate Dean for Student Life is responsible for the initiation and direction of a comprehensive program of student social and recreational activities. All social functions are subject to the rules and regulations of the college.

Automobiles

Automobiles parked on campus must be registered in the Business Office. All must display a legible parking permit sticker. Stickers should be displayed in the rear window of the car on the driver's side or hanging from the rear view mirror. Cars should be parked in the assigned lots as designated by the Business Office. Violation of parking regulations may result in vehicles being ticketed or towed away at owner's expense. Parking for the handicapped is provided.

Health Service

Union College students may receive health service and advice from the Knox County Health Department in Barbourville. Since the College does not have facilities for taking care of protracted illness, arrangements for hospitalization must be made by the student or his/her parents. Knox County General Hosptial is adjacent to the campus and has a 24-hour emergency room. When a physician is needed, the student may request the residence hall staff to call one; the fee is paid by the student. In case of emergency, the College reserves the right to employ a physician or to have a student hospitalized without consent of the parents. All full-time students are encouraged to secure coverage for an accident, sickness, and hospitalization plan if adequate insurance is not available through a family plan at home. All claims under a student's insurance plan are to be filed by the student and the attending physician and not by Union College. An elective basic hospitalization and outpatient insurance plan is available; information can be obtained through the college.

The college does require that a student health service record be completed by a physician and placed on file with the College before beginning studies at Union. Recent measles outbreaks across the nation have resulted in our requiring that all incoming students have current MMR immunization.

Campus Housing

Stevenson Hall and Lakeside Hall for men and Pfeiffer Hall for women are primarily double-occupancy facilities. A limited number of single/private rooms are available; preference for these rooms is granted by request to those students having earned the greatest number of credit hours. Twenty apartments are available for married students. All residents of Stevenson Hall, Lakeside Hall, Pfeiffer Hall, and College Courts are required to sign housing contracts.

Students are expected to obey the terms of their housing contracts. A copy of this contract can be obtained in the office of the Dean of Students.

The residence halls are closed during vacation periods as specified in the academic calendar. Students will not be allowed to remain in the residence halls during vacations. St dents will be required to turn in their keys du ing these stated vacation periods. Anyo failing to do so will be charged a lost key fe

No student will be issued a room key, ha way, or outside door key unless he or she h previously signed a housing contract. Ke must be returned by the last day of the ter of this agreement or the student's use of t accommodations, whichever occurs first. A student failing to return a room key and/ apartment key will be charged a ten doll ($10.00) fee. A twenty-five dollar ($25.00) f will be charged for loss of hallway or outsi door key to cover the cost of changing the loc

Students from outside the local area are r quired to live in the residence halls if und the age of 21. All students twenty-one years older, juniors or seniors (according to the R gistrar's Office records), veterans, and marri students are eligible to live off campus. Junic and seniors under age twenty-one must subn written parental permission.

Counseling Services

Union College takes seriously its respon bility to provide for the diverse needs of students. For this reason, the college has esta lished a network of counseling services in t following areas: academic advising, care planning and placement, religious concer personal and psychological counseling.

All students are assigned an academic a viser at the beginning of their tenure at Uni College. Faculty members serve in this capaci to assist students in selecting courses and co pleting academic requirements in a time manner.

The Office of Career Planning and Plac ment provides services that are designed help define a student's career needs, objectiv and goals. Services offered may include: c cupational advising, career interest testing, cr dentials/placement file service, job search ski seminars, graduate and professional school i formation.

Pastoral counseling services are provided l an ordained minister or a licensed pastor counselor. The minister is available for indivi ual and group sessions and is prepared to mal referrals as needed to other professionals.

Personal counseling services are available to all currently enrolled students. A qualified psychologist employed by Union College offers individual counseling and therapy for emotional, interpersonal, family, or social concerns.

The Student Life Staff is one of the more visible groups of individuals in the student's daily life. All staff members are prepared to assist students with special problems that may arise, and to connect them with the best available source of help within the college community.

Religious Life

Union College takes seriously its identity as a church-related institution and is concerned that its students be made aware of the value of faith as well as academic excellence. We seek to be faithful to John Wesley's affirmation that a whole person is one who unites knowledge with vital piety.

Students are given many opportunities to participate in Chapel services, prayer groups, Bible studies, and other discussion groups. The Religious Life Center, in the heart of the campus, provides a setting for informal meetings. The Chaplain and other community clergy are available for pastoral counseling.

The Willson-Gross Lectures and the Staley Distinguished Christian Scholar Lectures seek to bring outstanding speakers to the campus. The Religious Life Committee, composed of students, faculty, and staff, works with the Chaplain as an advisory group to ensure that religious life programs are appropriate to the needs of the students and the campus community.

Students are encouraged to worship regularly in the church of their choice and to participate in the various religious groups on campus and in the community.

Students are also encouraged to participate in community and world service projects during the year, such as world hunger relief, improvement of the quality of life in the Appalachian area, and community recycling.

ACADEMIC CALENDAR 1993-94

Summer, 1993 - First Session

May 31, Monday	Residence halls open for new students at 1:00 p.m. Memorial Day Holiday.
June 1, Tuesday	Advising and Registration. Late fee after this date. Students may register for both summer sessions. First meal - Breakfast Classes begin on regular schedule.
June 3, Thursday	Last day for schedule changes. Last day to register for first summer session.
June 16, Wednesday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
June 21, Monday	Orientation and Advance Registration for fall semester for new students.
July 2, Friday	Final Examinations. Students not registering for second summer session must check out of residence halls by 6:00 p.m. Last meal - Supper
July 5, Monday	Final grades due by 12:00 noon.

Summer, 1993 - Second Session

July 4, Sunday	Residence halls open for new students at 1:00 p.m.
July 5, Monday	Advising and Registration. Late fee after this date. Classes begin on regular schedule. First meal - Breakfast
July 8, Thursday	Last day for schedule changes. Last day to register for second summer session.
July 10, Saturday	Orientation and Advance Registration for fall semester for new students.
July 12, Monday	Orientation and Advance Registration for fall semester for new students.
July 21, Wednesday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
August 6, Friday	Final Examinations. Last meal - Supper Residence halls close at 6:00 p.m.
August 9, Monday	Final grades due by 12:00 noon.

Fall Semester, 1993

August 4, Wednesday	Last day to finalize advance registration for fall semester.
August 26, Thursday	Meeting for new faculty members; 10:00 a.m.
August 27, Friday	Faculty Meeting/Orientation and Registration Information; 9:00 a.m. Residence halls open 6:00-10:00 p.m. for NEW students.
August 28, Saturday	Residence halls open 10:00 a.m.-10:00 p.m. for NEW students. First meal — Brunch
August 30, Monday	Advising for upperclassmen and freshmen Registration for Fall Semester Late fee after this date. Fall Orientation — 1:00 p.m.

ugust 31, Tuesday	Classes begin.
eptember 6, Monday	Labor Day; no classes.
eptember 9, Thursday	Fall Convocation (required attendance by all full-time students); 9:30 a.m. — Conway Boatman Chapel.
	Last day for schedule changes.
	Last day to register for fall semester.
	Last day to apply for December graduation.
eptember 7-10	Constitutes the first week for refund purposes.
eptember 16, Thursday	Student Life Convocation (required attendance by all full-time students); 9:30 a.m. — Conway Boatman Chapel.
eptember 23, Thursday	Student Life Convocation (required attendance by all full-time students); 9:30 a.m. — Conway Boatman Chapel
)ctober 19 - 20	Mid-semester examinations (classes meet on regular schedule).
)ctober 21 - 24	Mid-semester grades due by 4:00 p.m. on October 21.
	Mid-semester weekend; no classes.
	Residence halls remain open; food service available.
)ctober 25, Monday	Classes resume.
)ctober 25 - 29	Counseling sessions with advisors.
	Classes meet on regular schedule.
)ctober 28, Thursday	College Convocation (required attendance by all full-time students); 9:30 a.m. - Conway Boatman Chapel.
November 10, Wednesday	Last day to elect credit/fail option.
	Last day to withdraw from a course with a grade of "W".
	Advising and Advance Registration for spring semester.
November 23, Tuesday	Last meal — Supper
November 24, Wednesday	Residence halls close at 10:00 a.m.
November 24 - 28	Thanksgiving vacation; no classes.
November 28, Sunday	Residence halls re-open at 1:00 p.m.
	First meal — Supper
November 29, Monday	Classes resume.
December 3, Friday	Last day to finalize advance registration for spring semester.
December 11, Saturday	Final Examinations for Saturday classes.
December 13, 14, & 15	Final Examinations.
December 16, Thursday	Residence halls close at 4:00 p.m.
	Last meal — Lunch.
December 17, Friday	Final grades for fall semester are due by 12:00 noon.

Spring Semester, 1994

January 9, Sunday	Residence halls open at 11:00 a.m.
	First meal — Lunch
January 10, Monday	Academic Advising.
	Counseling and Orientation for new students.
	Registration for spring semester.
	Graduate registration; 2:00-6:00 p.m.
January 11, Tuesday	Classes begin.
January 17, Monday	Martin Luther King Day; no day classes. Evening classes meet.
January 17 - 21	Constitutes the first week for refund purposes.
January 20, Thursday	Spring Convocation (required attendance by all full-time students); 9:30 a.m. — Conway Boatman Chapel.
	Last day for schedule changes.
	Last day to register for spring semester.
	Last day to apply for May-August graduation.
March 2 - 3	Mid-semester Examinations (classes meet on regular schedule).
March 4, Friday	No classes. Mid-semester grades due by 4:00 p.m.

March 10, Thursday	College Convocation (required attendance by all full-time students); 9:30 a.m. - Conway Boatman Chapel
March 11, Friday	Spring vacation begins at 5:00 p.m. Residence halls close at 5:00 p.m. Last meal — Lunch
March 20, Sunday	Residence halls re-open at 1:00 p.m. First meal — Supper
March 21, Monday	Classes resume.
March 22 - 25	Counseling sessions with advisors. Classes meet on regular schedule.
March 23, Wednesday	Assessment Day - Adjustment in class schedule. Evening classes meet.
March 30, Wednesday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
April 1 - 3	Easter vacation; no classes. Residence halls remain open; food service available. Brunch and Supper only.
April 4, Monday	Classes resume.
April 7, Thursday	Honors Convocation; 10:30 a.m. — Conway Boatman Chapel Advising and Advance Registration for May Interim, Summer Sessions and Fall Semester.
May 2, Monday	Last day to finalize advance registration for May Interim.
May 2, 3 & 4	Final Examinations.
May 5, Thursday	Students not involved with Commencement and not registering for May Interim must check out of residence halls by 4:00 p.m.
May 6, Friday	Final grades for spring semester are due by 12:00 noon. Baccalaureate; 7:30 p.m.
May 7, Saturday	Commencement; 10:00 a.m. Last meal — Brunch

May Interim, 1994

May 8, Sunday	Residence halls open for new students at 1:00 p.m.
May 9, Monday	First meal — Breakfast Registration for May Interim. Classes begin on regular schedule. Graduate registration; 2:00-6:00 p.m.
May 10, Tuesday	Last day to register for May Interim. Last day for schedule changes.
May 13, Friday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
May 21, Saturday	Orientation and advance registration for Fall Semester for new students.
May 23, Monday	Last day to finalize advance registration for first summer session.
May 27, Friday	Final Examinations. Students not registering for first summer session classes must check out of residence halls by 6:00 p.m. Last meal — Supper
May 31, Tuesday	Final grades due by 12:00 noon.

Summer, 1994 - First Session

May 30, Monday	Residence halls open for new students at 1:00 p.m. Memorial Day Holiday; no classes.
May 31, Tuesday	Advising and Registration. Late fee after this date. Students may register for both summer sessions. Classes begin on regular schedule. First meal — Breakfast
June 2, Thursday	Last day for schedule changes. Last day to register for first summer session.

ıne 15, Wednesday	Last day to elect credit/fail option.
	Last day to withdraw from a course with a grade of "W".
ıne 20, Monday	Orientation and Advance Registration for fall semester for new students.
	Last day to finalize advance registration for second summer session.
ıly 1, Friday	Final Examinations.
	Students not registering for second summer session must check out of residence halls by 6:00 p.m.
	Last meal — Supper
ıly 5, Tuesday	Final grades due by 12:00 noon.

ummer, 1994 - Second Session

ıly 4, Monday	Residence halls open for new students at 1:00 p.m.
ıly 5, Tuesday	Advising and Registration.
	Late fee after this date.
	Classes begin on regular schedule.
	First meal — Breakfast
ıly 8, Friday	Last day for schedule changes.
	Last day to register for second summer session.
ıly 11, Monday	Orientation and Advance Registration for fall semester for new students.
uly 21, Thursday	Last day to elect credit/fail option.
	Last day to withdraw from a course with a grade of "W".
ıugust 5, Friday	Final Examinations.
	Last meal — Supper
	Residence halls close at 6:00 p.m.
ıugust 8, Monday	Final grades due by 12:00 noon.

Residence halls will not close during the period from the end of Spring Semester through Summer I. Food service, however, will not be provided during the short periods between these terms.

ADMINISTRATION AND STAFF

JACK C. PHILLIPS, *President of the College* — A.B., Birmingham-Southern College; M.Div., Vanderbilt University; LL.D., Union College.

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BOB WARD, *Superintendent of Buildings and Grounds.*

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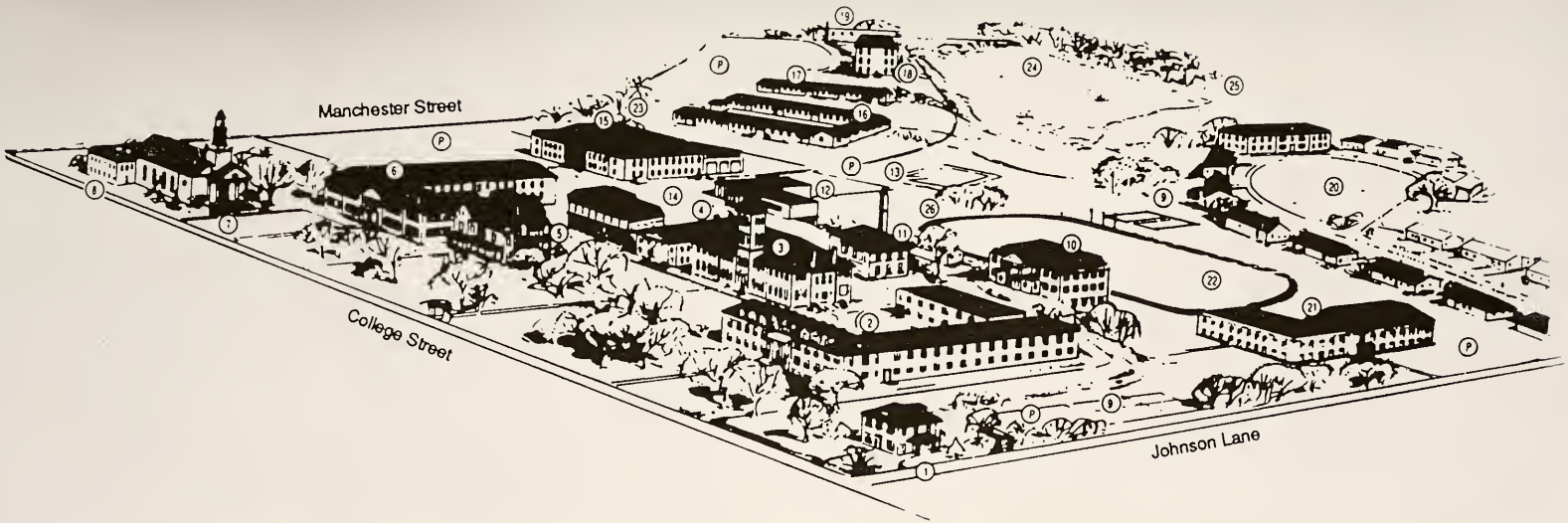

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1. Baldwin Place, President's Residence
2. Stevenson Hall, Men's Residence Hall
3. Centennial Hall Historic Landmark, Classroom Building
4. Abigail E. Weeks Memorial Library & Annex
5. Speed Hall, Administration Building
6. Pfeiffer Hall, Women's Residence Hall
7. Conway Boatman Chapel
8. Fine Arts Building
9. Tennis Courts
10. Soldiers and Sailors Intramurial Center
11. Campus Post Office/Data Processing Center
12. Patridge Student Center & Minton Cafeteria
13. Colonel Harland Sanders Baseball Field
14. Religious Life Center
15. Physical Education Building, Gym, and Swimming Pool
16. College Courts, Married Students' Apts.
17. College Courts, Faculty and Staff Apts.
18. Lakeside Hall, Men's Residence Hall
19. Lakeside Social Sciences Center
20. College Park Drive, Faculty & Staff Residences
21. Mahlon Miller Science Center
22. Burch-Nau Football Field
23. Football Offices/Weight Training Facility
24. Maintenance Building & Shops
25. College and Community Recreation Park
26. Jack C. & Juanita Phillips Athletic Complex

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While this catalog was prepared on the basis of the best information available at the time publication, all information - including statements of fees, course offerings, admissions and grad ation requirements - is subject to change without notice or obligation.

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UNION

COLLEGE

Union College Graduate Program

1993-1995

e First College in the Kentucky Mountains

Barbourville, Kentucky

UNION COLLEGE

1993-95 Graduate Catalog

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Fax Number ..... (606) 546-

Union College is accredited by the commission on Colleges of the Southern Associatio
Colleges and Schools to award Associate, Bachelor's, and Master's level degrees, by
Kentucky State Department of Education, and is approved by the University Senate o
Methodist Church.

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DR. and MRS. JACK C. PHILLIPS

Welcome to Union College

We welcome and invite you to examine the Graduate Studies Program of Union College. Founded in 1879 by Barbourville citizens and purchased in 1886 by the Methodist Church, Union has as its chief mission, service to the Appalachian area of Southeastern Kentucky, Eastern Tennessee, and Southwestern Virginia.

With an enrollment of more than 1,000, including both graduate and undergraduate students, Union College is committed to academic excellence. The College offers the Bachelor of Arts, the Bachelor of Science, the Master of Arts in Education degrees, and Rank I Program, along with Associate of Arts degrees and several one- and two-year programs.

Located on the historic Cumberland Gap Parkway in Southeastern Kentucky, approximately 17 miles from I-75, Union is the first College in this tri-state area. There are now over 3,000 graduates, with over 3,000 having the Master of Arts in Education degree.

We are pleased that you are interested in our graduate program and as you peruse these pages, we hope you will like what you see. Should you wish to enter our College, we believe your experience will be a profitable and happy one.

Sincerely,

Jack C. Phillips

Jack C. Phillips
President

A History of Service

Union College was founded in 1879 by a group of progressive citizens of Barbourville w formed a stock company and secured the main part of the present campus. In 1880, the fi building was formally opened on the site of what is now known as Centennial Hall.

The College was purchased by the Kentucky Conference of the Methodist Episcop Church in 1886, and Daniel Stevenson was made president of the reorganized institution. major bequest from Mrs. Fanny Speed led to the construction of Speed Hall, Stevenson Hall, a the Classroom Building (now known as Centennial Hall).

The college department was discontinued in 1908, and for eight years the institution w maintained as a Junior College, an academy, and an elementary school. It became a bona fi college again in the presidency of Ezra T. Franklin, who inaugurated a program of developme during which the Memorial Gymnasium and a home for the president were built. In 1927, t College was accredited by the University of Kentucky as a four-year college of A grade.

President John O. Gross emphasized the improvement of the curriculum and the buildi of a strong faculty. In 1931, Union was accredited by the University Senate of the Method Episcopal Church, and in 1932, full accreditation was realized when it was made a member the Southern Association of Colleges and Schools. The Board of Regents of the University of t State of New York placed Union College on its accredited list in 1937.

In Conway Boatman's twenty-one years of leadership, the College achieved mark progress in both its educational programs and in plant improvement. Seven new buildings we completed and others were enlarged. The curriculum was expanded, endowment funds we increased, and a markedly improved program of faculty salaries and benefits was adopted.

Mahlon A. Miller was elected to the presidency in 1959. In 1960, a Master of Arts Education degree program was introduced, and plant expansion continued with the develo ment of College Park, a faculty residential area, followed by the construction of addition student housing, a physical education building, a student center, and a science center, co pleted in 1973.

President Jack Carter Phillips began his duties at Union College in January, 1983.

Dr. Phillips earned the Bachelor's Degree at Birmingham-Southern College and the Mast of Divinity Degree at Vanderbilt University. He received an honorary Doctor of Laws Degr from Union College in 1981. He was lauded at that ceremony for "notable achievement in t field of institutional fund raising and, in particular, service to the colleges and universiti related to the United Methodist Church."

A native of Scottsboro, Alabama, Dr. Phillips served in the U.S. Marine Corps from 1954 1957.

Recently the College completed in a $3 million building program including a $2.1 millio cafeteria/Student Center, renovation of the Soldiers and Sailors Memorial Intramural Cente creating of soccer, baseball, women's softball, and men's football fields, the building of a ne organ for the Chapel, and telescopic seating in the gymnasium. There is now a commitment increase the endowment by $10 million, $5 million for student aid and $5 million for facult enrichment.

Under Dr. Phillips' leadership the College has experienced significant enrollment increase every year. A new 37,000 square foot library addition with computer facilities and a modern we equipped learning resource center opened in 1987.

The College has always accepted a special mission to Appalachia, a commitment which now being strengthened with unique academic programs based on regional characteristic expanded student financial aid, student community-service projects, and new career-oriente curricula.

The doors of Union College are open to those who aspire to a more fulfilling life, withou regard to race, color, sex, disability, national or ethnic origin.

A Statement of Values

Union College is dedicated to preparing students for living informed, socially useful, rsonally fulfilling, and spiritually vital lives. This commitment involves using knowledge thin a context of Christian values. Although it is recognized that as an educational institution ion College has an obligation to help students understand other value systems and their fects when translated into specific areas of human activity, as a United Methodist Church-lated college Union affirms an institutional stance based on Christian values such as have olved in the Judeo-Christian tradition and are contained in the Old and New Testaments. Our tent is both to confess and to practice the Christian faith in all our endeavors.

IMPLICIT IN THIS STATEMENT OF VALUES IS THE REQUIREMENT THAT UNION OLLEGE COMMIT ITSELF TO THE VALUES ENUNCIATED BY ASSURING TO THE AXIMUM EXTENT POSSIBLE:

o Its Students

) the fullest of opportunities to receive a quality liberal arts education.
) strong attention to, and genuine concern for, each individual in the college community, including emphasis upon the unique value of each person.
) a continuing concern that they learn to appreciate and accept life styles that reflect integrity, honesty, compassion, and social responsibility.
) a commitment to provide the experiences necessary to acquire a meaningful understanding of and dedication to Christian love and service to both God and neighbor.

o Its Faculty and Staff

1) a campus atmosphere of responsible academic freedom dedicated to the constant search for truth.
2) an academic community dedicated to openness and acceptance of its pluralistic composition, including personnel policies and practices that are recognized without regard to race, creed, sex, color, physical handicap, or national origin.
3) a constant reminder of the power of Christian example.

o Its Alumni, Benefactors, and the Parents of Its Students

1) faithful and responsible stewardship of all funds and gifts entrusted to the College.
2) continuance of meaningful traditions, particularly those unique to a church-related institution, while at the same time encouraging the exploration and implementation of new value-centered activities especially of the type that have strong Christian relationship.
3) continuing appreciation for the rich heritage of Union College as an independent, one-sectarian, church-related institution in the Christian tradition.

o The United Methodist Church

1) acceptance of Jesus Christ as God's revelation of Himself, and of the Holy Spirit as God's continuing presence in life.
2) acceptance of the moral standards which have evolved in the Judeo-Christian tradition as our ideals for living, working and witnessing in an academic community and as the standards for our teachings and person example.

(3) sensitivity to and a conscientious effort directed toward the satisfaction of the spiritual needs and concerns of the college's students, faculty, and staff.
(4) meaningful responsiveness to and support for the United Methodist Church.

To Barbourville, Knox County, and the Appalachian Area

(1) continuing appreciation that Union College is an integral, social, educational, and spiritual part of the Barbourville and Knox County communities, and of Appalachia.
(2) dedication of the college's resources in teaching, research, and service to the enrichment of the communities of which Union College is a vital part.
(3) a commitment of the personal resources represented by the colleges students, staff and faculty to local churches of the immediate and larger community..

Goals of Union College's Graduate Program

The Graduate Program at Union College is dedicated to serving area educators by enhancing their ability to work effectively with students, parents, educators, and community leaders; by providing advanced knowledge in professional studies and academic areas of emphasis; and by offering leadership in improving teaching skills. To accomplish these broad goals the graduate program has adopted a series of more specific objectives.

Those who complete Union College's Graduate Program will possess the following attributes:

1. An understanding of educational research methods and the ability to apply research findings.
2. An understanding of the historical events and philosophies that have impacted on the development of American education.
3. An understanding of curriculum theory and design and the ability to apply this knowledge.
4. An understanding of human development (including cognitive, affective, and psychomotor domains), its impact as the child progresses through the education system, and the ability to apply this knowledge.
5. An understanding of learning theory and the ability to apply this knowledge.
6. An advanced understanding in the student's academic or professional area of specialization.
7. An understanding of current educational issues.
8. An understanding of special needs students and the ability to apply this knowledge.
9. An understanding of multi-cultural issues and ethnic differences, and the ability to apply this knowledge.
10. An understanding of technology in education and the ability to apply this knowledge.
11. An understanding of the dynamics of educational policy and organizations.

Statement of Purpose
(Mission Statement)

Union College is an independent liberal arts institution of higher education affiliated with the United Methodist Church. It is dedicated to maintaining an academic environment that stimulates intellectual curiosity and scholastic competence, encourages Christian values, and underscores the worth and responsibilities of education and the individual. The College admits students without regard to race, color, creed, age, sex, or disability.

Union College commits itself to providing students with a sound education. The faculty embodies scholarship and dedication to student needs and achievements. Small classes allow attention to the individual. Faculty advisers assist each student in developing career goals and a plan of study appropriate to these goals. Students have access to many scholarly and technical resources, to personal, career, and academic counseling, and to a faculty representing a variety of models of intellectual accomplishment.

The College has designed its academic program to provide its students with the opportunity to broaden their knowledge of their own and other cultures, and to obtain the intellectual skills necessary for a career. The undergraduate Liberal Education Core, including the fields of humanities, natural sciences, and social sciences, promotes breadth of learning and serves as the foundation for the pursuit of individual majors. Plans of study in pre-professional and technical fields prepare students headed for post-graduate study or for immediate employment. A strong developmental program attends to gaps in academic preparation. Union offers graduate programs in education for the further preparation of both teachers and administrators. As a vital part of its service to the surrounding area, outreach includes a community education program, linkages with area school districts, selected courses offered at regional locations, and provision of several associate degrees. In its commitment to the United Methodist Church, Union College provides pre-ministerial training and support services to local churches.

Although Central Appalachia is Union's primary service area, the college intentionally recruits students from numerous states and foreign countries who enrich and diversify the College community. In order to inform people about Appalachian life, traditions, and problems, the College offers Appalachian studies for its own students and those from other institutions of higher education.

As a cultural center, as a resource for its area, and as a rigorous academic environment, Union College pursues its mission to serve both students and community.

Graduate Academic Calendar 1993-1994

FALL SEMESTER, 1993

August 4, Wednesday	Last day to finalize advance registration for fall semester.
August 30, Monday	Graduate Registration; 2:00 - 6:00 p.m.
August 31, Tuesday	Classes begin.
September 6, Monday	Labor Day; no classes.
September 7 - 10	Constitutes first week for refund purposes.
September 9, Thursday	Fall Convocation.
	Last day for schedule changes.
	Last day to register for fall semester.
	Last day to apply for December graduation.
October 9, Saturday	Written Exercise.
October 21 - 24	Mid-semester weekend; no classes.
October 25, Monday	Classes resume.
November 10, Wednesday	Last day to elect credit/fail option.
	Last day to withdraw from a course with a grade of "W".
	Advising and advance registration for spring semester.
November 20, Saturday	M.A. Comprehensive Examination, 8:00 a.m.
November 24 - 28	Thanksgiving vacation; no classes.
December 3, Friday	Last day to register in advance for spring semester.
December 13, 14, & 15	Final Examinations.

SPRING SEMESTER, 1994

January 10, Monday	Graduate registration; 2:00 - 6:00 p.m.
January 11, Tuesday	Classes begin.
January 17, Monday	Martin Luther King Day; no day classes, evening classes meet
January 17-21	Constitutes first week for refund purposes.
January 20, Thursday	Spring Convocation.
	Last day for schedule changes.
	Last day to register for spring semester.
	Last day to apply for May-August graduation.
February 5, Saturday	Written Exercise.
March 11 - 20	Spring vacation.
March 30, Wednesday	Last day to elect credit/fail option.
	Last day to withdraw from a course with a grade of "W".
April 1 - 3	Easter vacation; no classes.
April 7, Thursday	Advising and advance registration for May Interim, summer sessions and fall semester.

April 9, Saturday	M.A. Comprehensive Examination; 8:00 a.m.
May 2, 3, 4	Final Examinations.
May 7, Saturday	Commencement; 10:00 a.m.

MAY INTERIM, 1994

May 9, Monday	Graduate registration; 2:00 - 6:00 p.m. Classes begin on regular basis.
May 10, Tuesday	Last day to register for May Interim. Last day for schedule changes.
May 13, Friday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
May 27, Friday	Final Examinations.

SUMMER, 1994 - FIRST SESSION

May 30, Monday	Memorial Day; no classes.
May 31, Tuesday	Advising and registration - students may register for both summer sessions. Classes begin on a regular basis.
June 2, Thursday	Last day for schedule changes. Last day to register for first summer session.
June 15, Wednesday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
June 16, Thursday	Written Exercise.
June 20, Monday	Last day to finalize advance registration for second summer session.
June 1, Friday	Final Examinations.

SUMMER, 1994 - SECOND SESSION

July 4, Monday	Independence Day; no classes.
July 5, Tuesday	Advising and registration. Classes begin on regular schedule.
July 8, Friday	Last day for schedule changes. Last day to register for second summer session.
July 21, Thursday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
July 23, Saturday	M.A. Comprehensive Examination, 8:00 a.m.
August 5, Friday	Final Examinations.

General Information

Location of the College

Union College is located in Barbourville, a residential town of 3,500, on U.S. Highway 25E, midway between Lexington, Ky., and Knoxville, Tenn. The historic Wilderness Road runs along the eastern edge of the campus. The Dr. Thomas Walker State Park is four miles from the campus and in adjoining counties are the Cumberland Falls State Park, the Levi Jackson State Park, and the Pine Mountain State Park.

Graduates students may enroll for a portion of their work in courses offered in off-campus centers in a number of nearby communities.

Library and Learning Resource Center

The Abigail E. Weeks Memorial Library provides a variety of resources and services to support and enrich the College's academic programs. The library, located in the center of campus, houses a collection of more than 100,000 books, periodicals, government documents, audio-visual materials, and computer databases. These materials are accessible through the BiblioFile public access catalog. This automated catalog provides author, title, subject and keyword searching. The library can accommodate over 300 persons in a variety of seating arrangements, including study carrels, tables, group settings and an audio-visual classroom.

The Learning Resource Center is housed within the Library and includes non-print media and audio-visual equipment. The equipment includes a satellite dish providing access to C-band and Ku-band satellite transmissions and a video editing system. The LRC provides educational media materials for classroom use and individualized study. The library staff offers individual and group instruction in the use of equipment and materials.

The Library contains several special collections. The most recently added collection is the Cumberland Gap Genealogy Collection, consisting of local genealogy and history information. Additional collections include the Lincoln-Civil War Collection, the Curriculum Collection, the Music Library and the Science Reading Room. The library also serves as the repository for the College Archives.

The Weeks Memorial Library participates in state, regional, and national networks, including the Kentucky Library Network and the Southeastern Library Network. The library staff is dedicated to providing members of the Union College Community the information resources needed to meet their educational goals.

Center for Economic Education

The Center for Economic Education is located on the second floor of Centennial Hall. As a member of the Kentucky Council on Economic Education (KCEE) and its national counterpart, the Joint Council on Economic Education (JCEE), Union College maintains this Resource Center for teachers in all grades. It includes a repository for free materials which are available for teachers who wish to utilize them in their classrooms.

Some examples of materials in the Center are computer programs, both Apple and IBM, for all grade and skill levels, videotapes which may be borrowed or copied by teachers, and a wide variety of written publications. Three courses in economic education are available for teachers, most of whom may qualify to receive a partial tuition scholarship for completion of each course, and these courses may be used by teachers at any level of certification for that purpose.

Computer Facilities

The College has a variety of computers available for student and faculty use, including an HP-3000 minicomputer, an AT&T Unix-based super-microcomputer and numerous microcomputer systems. Four microcomputer laboratories on campus are used for instruction and are available for student and faculty use when not being used for classes. Three are located in Centennial Hall. In room 200, IBM-compatible 286 and 386 microcomputers are available for general use approximately fifty hours each week, primarily late afternoons and evenings - Monday through Thursday. A network system and connection to the Hewlett Packard System provides numerous opportunities for computer users. In room 209 the Ray C. Hensley Business Simulation Center is located. The center contains microcomputers, scanner, laser printer and telecommunication capabilities. In room 110 the Teagle Writing Laboratory is located. It is comprised of Macintosh microcomputers that are used for writing courses and student use. The fourth microcomputer laboratory is located in the Mahlon A. Miller Science Center and contains Apple IIe's, a terminal to the AT&T system, and an IBM compatible network.

The Computer Information Systems Program also operates the AT&T system. CIS majors have the opportunity to gain hands-on experience in the operation of this system.

Additional microcomputers are available for use in other areas. A Macintosh and an Apple IIGS are used in the Academic Resource Center. An Apple IIGS is used by the Music Department in the teaching of its classes, and Apple IIe and an IBM PC are available for use in the various science laboratories.

Most administrative offices use microcomputers connected to the College's administrative minicomputer to assist them in their duties.

Campus Activities

Student activity fees are not required of graduate students; however, graduate assistants, graduate students living on campus, and those residing near the campus are encouraged to take part in social and cultural functions of the college.

Registration

Students seeking course credit must be admitted to the graduate program or have a Visiting Student Permit. For details, please refer to the section on Admissions. Former Union College graduate students who have not been in attendance during the past year must apply for readmission and update their records in the Graduate office.

Course registration enrollment may be completed on campus or by mail during the period of advance registration. After this period, registration must be completed in person. There is no registration or change of program by phone.

Whenever the course enrollment has been entered on the computer registration system, the student is responsible for payment of assessed charges unless a change-of-program form or a

letter requesting withdrawal is submitted to the Registrar within the dates listed in the Academic Calendar.

Change of Program or Withdrawal

Notice of any changes in the student's initial computer registration program or of total withdrawal from the college, must be given to the office of the Registrar in writing. Upon request, the Registrar will provide change forms which should be approved by the major advisor and filed in the Registrar's office. Deadlines for changes are given in the Academic Calendar.

Attendance

Students are expected to attend all classes for which they are registered and are responsible for absences incurred by late enrollment. Students should avoid registering for courses which meet at times which conflict with anticipated teaching, administrative, coaching, or other duties at their respective schools or places of employment.

Inclement Weather Policy

Whenever weather conditions necessitate the cancellation of classes, a decision will be made as early as possible so that radio and television stations can notify listeners in their areas. Should the situation change during the day the Graduate office will get the work out to faculty members and students by whatever means seem most appropriate. Attempting to phone the Graduate office will overload the college switchboard and result in delay and frustration. Often phone networks can be set up at the beginning of the term by individual classes.

Unless notification is made as indicated above, normal class schedules will be maintained.

Application for Graduation

Application for graduation must be made in the office of the Registrar according to the following schedule. Students planning to complete all requirements for the May commencement should make application at the beginning of the prior fall semester. Those planning to finish during the summer terms should make application at the beginning of the spring semester. Those completing all degree requirements during the fall semester may participate in the following May commencement.

Students who complete all requirements in the spring or summer term may participate in the May commencement. Those failing to participate are required to pay an absentia fee (see fee under financial information).

M.A. and Fifth-Year students who earn a 4.0 grade point average are recognized at commencement with gold honor cords. Rank I candidates with Directed Field Projects of exceptional merit are recognized at commencement with gold honor cords.

Transcripts

The college regards the student's transcript as a personal and private document; it is released only on the written authorization of the student and payment of the required fee. Requests for transcripts should be made directly to the office of the Registrar, and should include the full name, social security number, and dates of attendance. When official transcripts are sent directly to the student, they are stamped "Issued to Student." Financial obligations to the college must be cleared before a transcript is issued. A $3.00 fee is charged for each transcript.

Academic Records

Family Education Rights and Privacy Act

The following policy is in accord with Kentucky Revised Statute 164.283, the Family Education Rights and Privacy Act of 1974 (Public Law 93-380) as amended (Public Law 93-568), also known as the Buckley Amendment, and the regulations formulated by the U.S. Department of Education.

Union College provides eligible students or their parents, when applicable, with the opportunity to review the student's education records, to seek correction of information contained in these records, and to limit disclosure of information from the records.

Eligible students or their parents, when applicable, may file a complaint with the U.S. Department of Education if any of their rights under the Family Educational Rights and Privacy Act of 1974 have been violated. Information concerning the rights enumerated in this act, as well as information concerning complaint procedures, is available in the Registrar's Office.

The College will release directory information to the general public in response to a legitimate request unless the student concerned files a written request with the Registrar that such information be withheld from the public. Directory information is defined as student name, address, classification, telephone number, dates of attendance, date and place of birth, degree(s) earned, previous educational institutions attended, and honors and awards received.

The Privacy Act also prohibits the distribution of grades to parents or guardians without a student's prior written consent, or a statement of dependency from parent or guardian when the student is a dependent as defined under the Internal Revenue Code.

Union College will, however, release records and accounts pertaining to veterans, as well as to other students, to appropriate U.S. government representatives. This exception to all other federal laws is found in Title 38 of the U.S. Code, Section 1790(c).

Automobiles - Parking

The college maintains paved parking lots for the use of commuting and resident students. Automobiles parked on campus must be registered in the Business Office and must display an official Union College parking permit on the rear window on the driver's side. This applies to part-time as well as full-time students. Permits may be obtained free of charge in the Business Office. Cars must be parked in designated areas only. The parking areas in the interior section of the campus adjacent to Centennial Hall and the Maintenance Building are restricted to delivery/service and motor pool vehicles, handicapped parking, and other authorized vehicles. City police enforce the no-parking regulation on College Street in front of the campus. Violation of campus parking regulations may result in fines charged against the student's account or in towing at the owner's expense. Parking for the handicapped is provided.

Placement Services

The Career Planning and Placement Office offers assistance to current students and alumni in securing positions relative to their background, interests, and qualifications. The office offers guidance in career planning and practical assistance in developing placement files, including resumes and letters of application.

All alumni and current students enrolled in degree or certification programs are eligible to register. Registration is neither automatic nor compulsory; it must be initiated by the individual. There is no charge for registration.

Students are advised to develop a placement file while they are in attendance at the College, when they can readily obtain references from faculty members. Files of inactive registrants are retained in storage for future use. Inactive registrants may add references at any time and may have their credentials forwarded to prospective employers.

The office is located in Room 104 in Centennial Hall.

Bookstore

The Bulldog Bookstore is located on the lower level of the Frances Patridge Student Center. Regular semester hours are 9:00 a.m. to 4:30 p.m., Monday through Friday, with extended hours during registration periods. Summer hours may be shorter. The bookstore stocks textbooks, materials and supplies, clothing, and a variety of gift items. Textbook refund periods and buy-back policies are posted.

Housing and Food Service

Full-time graduate students may elect to live on campus or obtain their own facilities in the community. Residence Hall rooms are available and may be obtained through contact with Dean of Students. All students living in the residence halls are required to obtain a boarding ticket and eat in the college dining hall.

A limited number of one-bedroom apartments are available for students with not more than one child. Pets are not allowed. Applications for apartments should be made in advance with the Dean of Students.

The Myrtle Cole Minton Cafeteria is located on the lower level of the Frances Patridge Student Center. All meals are served cafeteria style. Hours of operation and meal prices are posted in the dining room. Commuting students are welcome in the dining room and may purchase individual meal tickets at the door. A snack bar is also located on the lower level of the Student Center.

Financial Information

The academic year includes two fifteen-week semesters, a three-week May Interim session, and two five-week summer sessions. Below are applicable charges and fees.

Regular Semester Expenses (1993-94)

Tuition, per semester hour (less than 12 semester hours)	$160
Tuition, full time (12 or more semester hours)	3,500
Room and board (19-meal week)	1,395
Private room (additional)	105
Married student apartment (per month, including utilities)	160
Activity fee (full-time students)	25

Summer Session Expenses (1993)

Tuition, per semester hour	160
Room and board (19-meal week)	435
Room and board (15-meal week)	355
Private room (additional)	25

May Interim Expenses (1994)

Tuition, per semester hour	160
Room and board (19-meal week)	260
Private room (additional)	25

Fees

Admission application fee	15
Late registration fee	15
Graduation fee	20
Regalia Fee to be determined	
Graduation-in-absentia fee	70
Audit fee, per semester hour	15
M.A. Comprehensive Examination fee	5
Transcript (per copy, after first free copy)	3

Room and board charges are prorated for courses with irregular time schedules.

Fees and other expenses to be paid by students, as listed above and elsewhere in this catalog, are reviewed periodically and are subject to change.

Payment Policy

Financial Clearance

A student will be cleared for registration only if any previous balance has been paid. The new semester's account must then be paid in full, or a signed payment plan and first installment completed. Summer school and short sessions must be paid in full at the date of registration - no payment plan is permitted for summer or short sessions.

Authorized financial aid for the fall and spring semesters will be credited to the student's account and a payment plan set up for the balance. In case the financial aid is anticipated but not yet authorized, the student must pay as a first installment one-third of the total costs.

A student having any unpaid balance will not be cleared for the release of an official report of grades, a transcript of credits, or a diploma.

Finance Charge

A monthly finance charge of one and a half percent (18% annual rate) will be added to the unpaid balance on all student accounts at noon on the last working day of each month.

Payment Plan

If the new semester's account cannot e paid before registration, a payment plan can be completed and a first installment paid down. The payment plan requires one-third payment on each of the following dates after which the student may be withdrawn from courses if the account is not paid up:

(1) On or before fall semester or spring semester registration - one-third.
(2) Due September 20th (fall semester) or January 20th (spring semester) - one-third.
(3) Due October 20th (fall semester) or February 20th (spring semester) - one-third.

Any student who owes a balance on his or her account after November 15th (fall) or March 15th (spring) may be subject to withdrawal procedures.

Refund Information

Since faculty contracts and other commitments are made by the College for the entire year in advance, the following refund schedule has been established in order that the College and the student may share the loss equitably when it is necessary for a student to withdraw or make a change in his or her program.

(1) A student is considered to be enrolled until he or she completes drop/withdrawal procedures. These procedures must be completed in person or by mail. Necessary forms must be obtained from the Office of the Registrar. All refunds will be based on the date these drop/withdrawal forms are completed and returned to the Office of the Registrar.

(2) A full refund may be obtained for a class only if a student has not attended beyond the first session and completes drop/withdrawal procedures with the Office of the Registrar.

(3) Any portion of board charges unused up to date of withdrawal will be refunded, except that a full week's board will be charged for any fraction of a week.

(4) Tuition and room charges will be refunded on the following basis:

Regular Semester - Twenty percent of the total for tuition and room will be charged the first week, 40% the second week, 60% the third week, 80% the fourth week. No refund will be given after the fourth week. Any part of a week will be treated as a full week. Refund is based on the tuition charges less $10 student center allocation, $1 class dues, $1 student senate fee, $3 for I.D. card, and $25 activity fee.

Summer and Short Terms - Withdrawal up to the end of the first week will permit a 50 percent refund. No refund will be made after the end of the first week. Any part of a week will be treated as a full week.

(5) **Refund of Overpayment on Student Accounts** - If a student make an overpayment on his or her account, a written request for refund must be submitted to the Business Office within one year after the end of the last academic term for which the student was enrolled.

(6) **Room Reservation Deposit** - This deposit will be refunded if the request is made in writing not later than August 1 for the fall semester or 30 days before the opening of any other semester for which the contract is first effective. Students, once enrolled, must submit a written request to the Dean of Students at least 30 days before the end of the term, for cancellation of the contract. This deposit will be refunded within 60 days upon receipt of written authorization by the Dean of Students indicating that the depositor is no longer enrolled as a student at Union College and that he or she has left the housing facility undamaged and does not owe other bills. The request for this authorization must be made within one year after the end of the academic term for which the student was enrolled.

Financial Assistance

Eligibility for the Stafford Loan is determined by filing the Free Application for Federal Student Aid (FAFSA) with the Financial Aid Office 30 days prior to enrollment. Stafford Loans are then processed through the student's home bank. After October 1, 1992, the interest rate for first-time borrowers will be variable but not to exceed 9%. Repayment begins six months after the student graduates or drops below the eligibility requirement of six hours enrollment.

Students eligible for Veteran's Benefits should contact the Registrar for information concerning procedures required to receive those benefits.

Students achieving a 4.0 average for all coursework taken as part of their Masters Degree or Fifth Year Certificate will receive the last class of their Rank I free if all work towards Rank I is taken at Union College. Application must be made through the Graduate Office.

Students achieving a 4.0 average for all coursework taken as part of their Rank I will receive the first class after the completion of their Rank I free if all coursework towards Rank I is taken at Union College. Application must be made through the Graduate Office.

Admissions

General Requirements

Applicants for admission to the Graduate Studies Program may enter at the beginning of each academic semester, interim, or summer session.

Admission to graduate study does not imply admission to candidacy for the Master's Degree.

For admission as a regular graduate student an applicant must have completed requirements for a Bachelor's Degree at an accredited institution with a grade point average (GPA) of 2.5* or better. In addition to completing the general application, the applicant must arrange for the graduate office to receive:

1. Application Fee. Payment of the non-refundable $15 application fee.
2. Transcripts. Two official transcripts of all undergraduate and all graduate work completed must be sent directly to the Graduate office by the institutions where the credits and degrees were earned. If the transcript from the last institution indicated the former work taken by the applicant, including grades received, only that transcript is required.
3. References. At least two letter of reference are required from individuals who can attest to the applicant's academic and/or professional capabilities. Forms may be obtained in the Graduate Office.
4. Teaching Certificate. A copy of a valid teacher's certificate indicating areas in which the applicant is qualified.
5. Planned Program. A planned program signed by the Graduate Dean and Advisor.
6. Entrance Examination. Scores from the Core battery of the National Teacher's Examination or the Graduate Record Examination (GRE) within the past four years acceptable within state guidelines.

*All grade point averages in this catalog are based on a four-point scale.

Fifth-Year Certification Program

In addition to the above general requirements, students applying for admission to a fifth-year program must provide official evidence of the completion of an initial teacher certification program.

Master of Arts in Education Degree Program

The requirements for admission to the Master of Arts in Education Degree Program are the same as those specified in "General Requirements" above, with the following addition:

The undergraduate transcript should indicate that a minor of 21 semester hours has been completed in the field of teaching desired in the student's Master's Degree Program. If this condition is not met, the student may be admitted conditionally.

In order to qualify for full admission, the student may need to complete the deficient undergraduate course work in addition to the graduate level courses prescribed for the M.A. degree.

Rank I Program

Applicants for admission to a program leading to the awarding of a Rank I classification must have completed requirements for the M.A. in Education Degree or the Fifth-Year Certificate. A GPA of 3.0 is necessary for unconditional admission to the program.

Elementary school teachers who have earned the Fifth-Year Certificate, but do not possess a Master's Degree in Education are not eligible for admission to certification programs in administration or supervision.

Uncertified Admission

A limited number of students who do not possess teaching certificates may be admitted to the Graduate program for the primary purpose of improving their academic background. Ultimately, these applicants may obtain certification, provided they complete all of the course work and student teaching specified for the desired teaching certificate.

Conditional Admission

Applicants with GPA below the minimums specified for these programs may be approved as "conditional admissions". In such cases, the students must prove their ability to earn at least 3.0 GPA upon completion of the first 12 semester hours of graduate credit. Failure to achieve the 3.0 GPA level within the allowable 12 hours shall result in the recommendation that the student withdraw from the Program.

Admission to Candidacy

Admission to any program leading to the Master's degree is not equivalent to admission to candidacy for the Master's degree. Students must file an application for admission to candidacy for the M.A. degree and complete the candidacy requirements before registering for courses beyond twelve semester hours.

Admission to candidacy for the Master's Degree requires formal application to the Office of Graduate Academic Affairs, completion of the requirements listed below, and approval of the Graduate Council. The application is available in the Office of Graduate Academic Affairs.

1. Shown an aptitude for graduate study by the completion of 12 semester hours of graduate work with a grade point average of at least 3.0.
2. Satisfied any deficiency in oral or written English that has been reported by a member of the faculty.
3. Successfully prepared a written exercise administered by the Office of Graduate Academic Affairs. The exercise will require each student to compose an essay on a topic drawn from choices provided by the Department of English. The essay will be rated on three criteria: (a) content, (b) structure, (c) style.

Transfer Credit

A maximum of nine semester hours from a recognized and regionally accredited graduate school may be transferred toward the M.A. degree in Education. For students working on Fifth-Year Certificate a maximum of 14 semester hours may be transferred. Fifteen semester hours may be transferred toward the Rank I program. Requests for transfer credit must be appropriate to the student's planned program, carry a grade of a least "B", and be approved by the Dean of Graduate Academic Affairs.

No credit is allowed toward the Master's degree for courses taken by correspondence.

Academic Information

Degree and Certification Requirements

The Master of Arts in Education degree program and the non-degree Fifth-Year certification and Rank I programs are designed primarily for in-service teachers in public schools.

Master of Arts in Education Degree

Requirements for the Master's degree include: (1) completion of one of the degree programs described in the Graduate Programs section of this catalog; (2) a minimum grade point average of 3.0; (3) satisfactory performance on the Comprehensive Examination; and (4) completion at Union College of at least 21 of the required 30 semester hours. A minimum of 15 semester hours must be earned in courses numbered 500 or higher. For students electing to write a Master's these, the six semester hours of credit are included in the elective component (6 hours) of the degree plan.

Fifth-Year Certificate

Fifth-Year certification requirements include: (1) completion of a 32-semester hour program of studies; (2) a minimum grade-point average of 2.5; (3) 12 semester hours in professional education courses; (4) 12 semester hours in a field of specialization, and (5) completion at Union College of at least 18 of the required 32 semester hours.

The Kentucky Fifth-Year certification program allows certain Continuing Education Units (CEU) and in-service training to be credited toward a certificate. Students desiring to earn CEU credits at another institution for transfer on a Fifth-Year program at Union College must obtain permission in advance from the Dean of Graduate Academic Affairs.

Planned Program

Planned student programs are required of all graduate students and are to be completed by the student and an advisor or Dean of Graduate Academic Affairs. The written program constitutes an agreement leading to the M.A. degree, Fifth-Year and Rank I certificates, and certification programs. In order to assure that all academic requirements are met, the student's program must be finalized before the completion of two graduate courses. Any subsequent changes in the program must be approved by the Dean of Graduate Academic Affairs.

Maximum Course Loads

The maximum course load for full-time graduate students is fifteen semester hours for a regular semester, six hours per summer term, and three hours for an interim session. Graduate students engaged in full-time employment normally are restricted to six semester hours for a regular semester and six hours for a summer term. Twelve hours per semester constitutes a full load for financial purposes.

Credit may not be earned concurrently at another institution without the permission of the Dean of Graduate Academic Affairs, and then only within the total limits indicated above.

Time Limits

A graduate student is expected to complete requirements for the Master's degree, the Fifth-Year Program, or Rank I no later than five years after beginning course work. An extension of the time limit for an additional three years may be granted for sufficient reason by the Dean of Graduate Academic Affairs and the Graduate Council upon written petition from the student. If the course work is deemed reasonable within the framework of current knowledge and findings, or if for some physical reason the student has not been able to complete his/her work on schedule, consideration will be given for the extension of time.

The minimum time needed to complete the graduate work is two full semesters or its equivalent in summer sessions and part-time study.

Courses offered by Union College in off-campus locations apply toward the requirements, although some required courses are offered on campus only.

Independent Studies, TV Courses, Workshops

A student may take up to a total of 9 hours in TV courses, workshops, and independent studies at the Master's level, and up to a total of 12 hours on the 60-hour graduate program (M.A. + 30 or Rank I).

While the chief purpose of the independent study is to afford the student an opportunity to obtain credit for study outside the regular course offerings of the graduate program, permission may be granted under special conditions for a student to take a regularly scheduled course as an independent study.

Visiting students and students beginning their graduate studies are not permitted to take a course on an independent study basis.

Credit for independent studies done at other accredited institutions will be accepted provided such credit meets the Union College transfer credit requirements.

A student must have successfully completed nine semester hours of earned graduate credit in order to qualify for independent study.

All proposals for independent study must be approved by the Dean of Graduate Academic Affairs. It is the student's responsibility to work with a professor in planning the course of study and to present the proposal for approval no later than three days after the registration date of the semester during which the work is to be accomplished. Forms for independent study must be obtained from the Office of Graduate Academic Affairs.

Comprehensive Examination

A written comprehensive examination is required of all students who have been admitted to candidacy for the Master of Arts in Education degree and who have completed or are completing 24 credit hours toward the degree. The examination is given in April, July, and November each year. Students must be admitted to candidacy for the Master's degree before being allowed to take the examination. An application for the examination must be filed in the Graduate Office at least 30 days prior to the scheduled date of the exam.

A student who fails one of the four parts of the examination and is scheduled to graduate at the end of that term may request an oral examination on that part or may repeat the examination at a later date. A student who fails the Comprehensive Examination may retake the failed parts twice.

Following are some of the salient aspects of the comprehensive examination:

1. All examination questions are of the essay type.
2. The comprehensive examination includes four areas, each representing a one-hour section of the examination: 1) research, 2) professional knowledge, 3) a current topic in education and (4) the student's teaching field.
3. The research question requires the analysis of a published research report and the interpretation of examples of commonly used statistical procedures.
4. The professional knowledge portion includes questions representing each of the courses in the professional block of the degree program. Students write on any one of these questions.
5. The third question requires all students to write on a current topic in education, the topic to be selected by the faculty examination committee. Students are expected to have read widely in current education journals. A list of possible topics is prepared sufficiently in advance of the examination to guide students in their reading.
6. The fourth question requires the student to write on a topic in his or her teaching field.

Master of Arts Thesis

Students may opt to write a thesis in partial fulfillment of the requirements for the M.A degree. The thesis is a systematic, written presentation of the results of a study, investigation or research. Thesis credit will fulfill six hours in the elective component of the M.A. program.

The Union College Graduate Council views the Master's Thesis as a completed document that demonstrates a high degree of competence in originality and creativity. Before registering for EDUC 599 (Thesis), the student must complete a total of 15 semester hours of graduate work, including EDUC 500 - Educational Research.

Students choosing the thesis route must have an advisory committee of at least three faculty members who regularly teach graduate courses. The chairman shall be from the student's major area of interest. At least one member shall be from the area of education, and at least one member shall be from outside the field of education. The Dean of Graduate Academic Affairs shall serve as ex officio member. The names of the committee/members shall be submitted to the Dean for approval.

The committee, appointed by the Dean of Graduate Academic Affairs, shall review the student's proposal to ensure that the problem to be investigated is a significant one, that a thorough review of the literature has been conducted, and that the student is planning to use proper methodology.

The completed draft of the thesis is to be presented to the chairman of the student's advisory committee at least 30 days before graduation. A final oral examination on the thesis is to be successfully completed 10 days before graduation. Two copies of the completed thesis and an abstract (150-350 words) are to be presented to the Dean one week before graduation.

If the thesis is not completed within two semesters after the student registers for EDUC 599, the candidate must continue to register each semester until the thesis is completed. The student shall pay a continuous registration fee of one credit hour tuition charged each semester until the thesis is completed unless the change is otherwise waived by the thesis committee. Exceptions must be recommended by the thesis committee and approved by the Graduate Council.

Detailed information concerning the thesis may be obtained in the Graduate Office.

Auditing

With the consent of the instructor a person may audit a course, provided he/she meets the graduate admission requirements. An auditor is one who wishes to attend a class regularly, but who does not wish to meet the assignment or evaluation requirements of students enrolled for credit. Courses with limited enrollment, laboratory courses, and seminars are not open to auditors. Audited courses will not appear on the transcript and may not later be applied for credit. A fee of $15 per semester hour is charged.

Seniors as Graduate Students

The option to enroll in graduate courses (400G or 500 level) is open to seniors lacking no more than six credit hours for graduation and satisfying the following conditions:

1. The student's grade point average must be at least 3.0 on all work attempted.
2. The approvals of the Dean of Graduate Academic Affairs, the student's advisor and the Registrar must be obtained.
3. The total of the student's academic load may not exceed twelve credit hours for the semester.
4. All requirements for the undergraduate degree must be completed during the semester or summer in which the student is allowed to register for part-time graduate work.

Graduate credit will be allowed only for those courses completed beyond the requirements for the undergraduate degree.

In addition to the application for admission to the Graduate Studies Program, the student

is required to file a petition form listing the course or courses to be taken to complete the undergraduate degree as well as courses to be taken for graduate credit.

The petition must be approved by both the Dean of Graduate Academic Affairs and the Registrar.

The Grading System and Quality Points

Grades for graduate courses at Union College are defined as follows:

A Excellent. Outstanding achievement. Four quality points.

B Good. Acceptable achievement. Three quality points.

C Fair achievement. Only minimally acceptable. Two quality points.

D Very low performance. One quality point. The records of students receiving such grades are subject to review. The result could be denial of permission to register for further graduate work at Union College.

F Failure. No academic credit and no quality points.

W Withdrawal from a course during the first 12 weeks of the semester. Failure to officially withdraw from a course before the withdrawal deadline indicated in the academic calendar may result in an automatic grade of F.

I Incomplete. Used when attendance requirements have been met but granting a grade has been postponed because, for reasons satisfactory to the instructor, certain course assignments have not been completed. An "I" must be removed before the end of the following regular semester if the student is enrolled for that semester. If the student is not enrolled, the "I" must be removed before the end of the 12-month period following the date the grade was recorded. An "I" that is not removed within the time limit remains on the student's permanent record and cannot be made up.

If a course is repeated at Union College, only the second grade is used in computing the student's grade point average.

Course Numbering System

Courses available to graduate students are offered on three levels, numbered 400, 500, and 600. A limited number of 400 level undergraduate courses are open to graduate students, and are so designated by a "G" in the course number. (Example: EDUC 401G.) A maximum of 15 semester hours may be taken on the M.A. level, six semester hours on the Rank I level. Since these courses are available to advanced undergraduate students, care must be exercised to avoid duplication of courses already taken.

Courses on the 500 level are limited to graduate students. Those on the 600 level are intended primarily for Rank I students, although 9 semester hours on this level may be taken by M.A. candidates.

Some course numbers are reserved for specific types of courses, and are not included in Course Descriptions section of this catalog.

581, 681 "Special Topics" courses developed on a one-time basis, or a special innovative course.

582, 682 Special workshop.

583,683 Courses offered through the Kentucky Educational Television Network (KET).

595-695 Independent study. Courses offered for individual study outside the regular course offerings. Under special conditions a student may be permitted to take a regularly scheduled course as an independent study.

Academic Advising Career Planning and Placement Services

Upon Admission to Union College, students will begin a process whereby career planners and faculty advisors assist them to articulate their career goals, to select academic courses of study appropriate to those goals, and to achieve suitable placement upon completion of their studies.

Academic Advising is considered to be one of the most important tasks of the faculty. Each student will meet with an academic advisor on an individual basis in order to develop a planner program.

A Career Counselor is also available to assist students. Inventories, workshops, and individual sessions are used to help students in identifying areas of interest or study and work. The Career Counselor also assists seniors and graduate students in preparing a placement file and coordinates employment opportunities. This placement file is sent, at no cost, to prospective employers at the student's request.

Graduate Programs of Study

Master of Arts in Education
Non-Degree Fifth-Year Program
Rank II Certification

Elementary Teacher 24-25
Kindergarten Teacher 25
Middle School Teacher 26-28
- English and Communication
- Mathematics
- Science
- Social Studies

Reading Specialist 28
High School Teacher 29
- English 29
- Health 29
- Health/Physical Education 30
- History 30
- Music 30-31
- Psychology 31
- Science 31-32
- Social Science 32
- Sociology 32

Rank I Certification

Elementary Teacher 34
Middle School Teacher 34
High School Teacher 34
Elementary School Principal 35
Middle School Principal 36
High School Principal 37
Supervisor of Instruction 38

Curricula
M.A. Degree and Fifth-Year Certificate

The planned Fifth-Year program required for the renewal of provisional elementary teaching certificates shall be planned as outlined by the Kentucky State Department of Education and shall be accepted as an equivalency for a Rank II classification in Kentucky. Union College has adopted the following three plans whereby students may earn Rank II Classification:

1. Completion of the Masters of Arts in Education degree (non-thesis) - 30-33 semester hours.
2. Completion of the Masters of Arts in Education degree (thesis) - plus 30-33 semester hours.
3. Completion of the Fifth-Year non-degree program - 32 semester hours.

Early Elementary Education Curriculum, K-4
(M.A., Standard Certificate, Rank II)

1. PROFESSIONAL EDUCATION COMPONENT ..... 12 semester hours

EDUC 500	Methods of Educ. Research
EDUC 520	Techniques and Materials for Classroom Reading or
EDUC 530	Diagnostic and Remedial Procedures in Reading
EDUC 502	Curriculum Design or
EDUC 603	Elementary Curriculum
PSYH 600	Advanced Human Development

2. SPECIALIZATION COMPONENT ..... 12 semester hours
Courses should be chosen from four (4) separate non-education fields. Students should consult their Planned Program for titles.

3. ELECTIVE COMPONENT* ..... 6 semester hours
Students electing to continue their education in administration may use these suggested electives to begin an administration program or strengthen their backgrounds in behavioral science.

EDUC 441G	Teaching Social Studies
EDUC 468G	Educational Media
EDUC 511	Test and Measurements
EDUC 603	Elementary School Curriculum
EDAD 630	School Law

*Thesis - The thesis may be taken in lieu of six (6) hours of elective course work. For further information the student should contact the graduate office.

Early Elementary Education Curriculum, (K-4) (Fifth-Year Certificate, Rank II, Non-Degree)

1. PROFESSIONAL EDUCATION ..... 12 semester hours
Must include:

EDUC 500	Methods of Research
EDUC 520	Techniques and Materials for Classroom Reading Instruction or
EDUC 530	Diagnostic and Remedial Procedures in Reading
EDUC 502	Curriculum Design or
EDUC 603	Elementary School Curriculum
PSYH 600	Advance Human Development

2. SPECIALIZATION COMPONENT ..... 12 semester hours
Must be selected from those courses listed under the Specialization Component in the Master (K-4) program. Course selection may be made upon needs and current teaching assignment. Selection may include courses numbered 581, 681, (special topics) and/or 582, 682 (special workshops), however courses must be approved by advisor and Dean of Graduate Studies. Six hours must be graduate level.

3. ELECTIVES ..... 9 semester hours
May be chosen from the area of specialization or other graduate courses - Education or Non-Education, depending upon interests and needs of student. However, selection must be made in sequence with previous preparation. Courses numbered 583, 683 (Kentucky Education TV Network) may be included.

Kindergarten Teacher Preparation

An endorsement for teaching kindergarten shall be issued to applicant who holds a valid certificate for classroom teaching at the elementary level (1-8) and who has completed the program below for the kindergarten endorsement.

EDUC 440G	Introduction to Early Childhood Education	3 hrs.
EDUC 542	Fundamentals to Kindergarten Education	3 hrs.
EDUC 545	Practicum in Kindergarten Education	6 hrs.

A portion of the kindergarten program may be included in the program leading to the standard elementary certificate.
The kindergarten program is offered in the summer on demand.

Early Elementary Endorsement Program (K-4)

The program of preparation for the endorsement for teaching at the K-4 level of certificate valid for classroom teaching in the Middle grades or at the High School level. (The endorsement plan is based upon the Union College undergraduate program approved by the Kentucky State Board of Education.)
A number of the required courses listed below are of graduate level and may be applied toward the M.A. degree in Education or Rank I Certificate. Complete information is available in the Graduate Office.

1. PROFESSIONAL PREPARATION:

Education 351 - Human Growth and Development or ..... 3 hrs.
Psychology 600 - Advanced Human Development ..... 3 hrs.
Education 361 - Reading in the Primary Grades or ..... 3 hrs.
Education 520 - Techniques and Materials for Classroom Reading Instruction ..... 3 hrs.
*Education 341 - Methods of Teaching Mathematics in Elementary School or ..... 3 hrs.
*Math 532 - Modern Math Laboratory ..... 3 hrs.
*General Science 401G - Science: Concepts, Processes, and Inquiry or ..... 3 hrs.
*GNSC 525 - Science for the Elementary Grades ..... 3 hrs.
*Education 441G - Methods of Teaching Social Studies ..... 3 hrs.
*Education 433 - Supervised Student Teaching in the Elementary Grades ..... 3-6 hrs.
(K, 1, or 2 level) or
Education 635 - Laboratory Experiences ..... 3 hrs.
(K-4) (Students must have completed at least one year of full-time teaching.)

*Course work will contain experience with the use of computers and classroom experiences (K-4).

2. RELATED STUDIES:

Art 271 - Elementary School Art ..... 3 hrs.
Music 373 - Elementary School Music ..... 3 hrs.
Physical Education 261 - Physical Education in the Elementary School ..... 3 hrs.
Health 451G - School and Community Health ..... 3 hrs.
Health Elective (graduate or undergraduate) ..... 3 hrs.
English 355 - Children's and Adolescent Literature ..... 3 hrs.

Candidates without a major, minor, or area of concentration in mathematics must complete one of the following:

Math 203, 204 or ..... 6 hrs.
Math 531 - Topics in Modern Math for Elementary Teachers ..... 3 hrs.

Middle School Curriculum
(M.A., Standard Middle School Certificate (5-8) and Rank II)

1. PROFESSIONAL EDUCATION COMPONENT ..... 12 semester hours

EDUC 500	Methods of Educ. Research
EDUC 502	Curriculum Design
EDUC 605	Advanced Study of the Middle Grade Child
EDUC 601	The Middle School Curriculum

2. SPECIALIZATION COMPONENT ..... 12 semester hours

Will be selected from those academic fields previously completed for provisional certification.

3. ELECTIVES* ..... 6 semester hours

*Thesis - The thesis may be taken in lieu of six (6) hours of elective course work. For further information the student should contact the graduate office.

Middle School Curriculum
(Fifth Year Certificate, Standard Middle School (5-8) and Rank II)

1. PROFESSIONAL EDUCATION COMPONENT ..... 12 semester hours

EDUC 500	Methods of Educ. Research
EDUC 502	Curriculum Design
EDUC 605	Advanced Study of the Middle Grade Child
EDUC 601	The Middle School Curriculum

2. SPECIALIZATION COMPONENT ..... 12 semester hours
Will be selected from those academic fields previously completed for provisional certification. Six (6) hours must be completed at the graduate level.

3. ELECTIVES ..... 9 semester hours
May be chosen from the area of specialization or other graduate courses. EDUC 501 History and Philosophy of Education and PSYH 565 Psychology of Exceptional Children are suggested.

Middle Grade Endorsement Program (5-8)
(Applicants who hold Elementary Certificate)

The program of preparation for the endorsement for classroom teaching in the middle grades of a certificate valid for classroom teaching in the Elementary grades. (The endorsement plan is based upon the Union College undergraduate program approved by the Kentucky State Board of Education.)
Graduate level courses listed below may be applied toward the M.A. Degree in Education or Rank I Certificate.

Requirements:
1. The applicant must hold 24 hours in one of the following fields:
   English and Communications
   Mathematics
   Science
   Social Studies

Complete information is available in the Graduate Office as to specific courses needed in the above fields.

2. Education 601 - Advanced Study of the Middle Grade Child or ..... 3 hrs.
   Education 352 - Human Growth and Development in the Middle Grades ..... 3 hrs.

3. Education 370 - The Middle School Curriculum or ..... 3 hrs.
   Education 605 - The Middle School Curriculum ..... 3 hrs.

Middle Grade Endorsement Program (5-8)
(Applicants who hold Secondary Certification)

The program of preparation for the endorsement for classroom teaching in the middle grades of a certificate valid for classroom teaching at the high school level. (The endorsement plan is based upon the union College undergraduate program approved by the Kentucky State Board of Education.)

Graduate level courses listed below may be applied toward the M.A. Degree in Education or Rank I Certificate.

Requirements:

1. The applicant must hold 24 hours in one of the following fields:
   - English and Communications
   - Mathematics
   - Science
   - Social Studies

Complete information is available in the Graduate Office as to specific courses needed in the above fields.

2. Education 520 - Techniques and Materials for Classroom Reading Instruction or ... 3 hrs.
   Education 620 - Teaching Reading in the content Field ..... 3 hrs.

3. Education 601 - Advanced Study of the Middle Grade Child or ..... 3 hrs.
   Education 352 - Human Growth and Development in the Middle Grades ..... 3 hrs.

4. Education 370 - The Middle School Curriculum or ..... 3 hrs.
   Education 605 - The Middle School Curriculum ..... 3 hrs.

Reading Specialist

1. PROFESSIONAL EDUCATION ..... 9 semester hours
- EDUC 500 Research in Education ..... 3 hrs.
- EDUC 501 History and Philosophy ..... 3 hrs.
- EDUC 502 Curriculum Design ..... 3 hrs.

2. SPECIALIZATION COMPONENT ..... 18 semester hours
- EDUC 520 Techniques and Materials for Classroom Reading ..... 3 hrs.
- EDUC 530 Diagnostic and Remedial Procedures in Reading ..... 3 hrs
- EDUC 532 Techniques and Materials for Remedial Reading ..... 3 hrs.
- EDUC 533 Language Arts and Reading ..... 3 hrs.
- EDUC 535 Practicum in Teaching Reading (Clinic) ..... 3 hrs.
- EDUC 620 Teaching Reading in the Content Field ..... 3 hrs.

3. RELATED FIELD ..... 6 semester hours
- PSYH 525 Psychology of Reading ..... 3 hrs.
- *EDUC 625 Seminar in Reading ..... 3 hrs.

High School Curriculum

Persons holding the provisional certificate for teaching in high school (9-12), may choose one of the following three options to earn Rank II certification:

1. Completion of the Master of Arts in Education degree (non-thesis) - 30 semester hours
2. Completion of the Master of Arts in Education degree (thesis) - 30 semester hours
3. Completion of the Fifth-Year Non-degree program - 32 semester hours

English Curriculum
(M.A. in Education, Standard Secondary Certificate, Rank II)

1. PROFESSIONAL EDUCATION ..... 12 semester hours
EDUC 500, 501, 502, or 600
PSYH 600

2. SPECIALIZATION COMPONENT ..... 15 semester hours
Select EDUC 520, 620, or 530 and four courses from:
ENGL 401G, 402G, 419G, 421G, 451G, 521, 522, 541, 542, 572, or 595

3. ELECTIVES* ..... 3 semester hours
Elect from area (1) or (2) above or from other graduate disciplines with approval of the Dean of Graduate Academic Affairs.
EDUC 604 or EDAD 630 suggested
*Thesis - The thesis may be taken in lieu of six (6) hours of elective course work. For further information the student should contact the graduate office.

Health Curriculum
(M.A. in Education, Standard Secondary Certificate, Rank II)

1. PROFESSIONAL EDUCATION ..... 12 semester hours
EDUC 500, 501, 502, or 600
PSYH 600

2. SPECIALIZATION COMPONENT ..... 12 semester hours
Select from HLTH 451G, 475G, 551, 582, or 595

3. ELECTIVES* ..... 6 semester hours
Select from area (1) or (2) above or from other graduate disciplines with approval of the Dean of Graduate Academic Affairs.
EDUC 604 and EDAD 630 suggested
*Thesis - The thesis may be taken in lieu of six (6) hours of elective course work. For further information the student should contact the graduate office.

Health/Physical Education Curriculum
(M.A. in Education, Standard Secondary Certificate, Rank II)

1. PROFESSIONAL EDUCATION ..... 12 semester hours
EDUC 500, 501, 502, PSYH 600

2. SPECIALIZATION COMPONENT ..... 15 semester hours
Select (6) hours from HLTH 451G, HLTH 475G, HLTH 551, or HLTH 582 and
Select (6) hours from PHED 425G, PHED 525, or PHED 550
PHED 501 is required

3. ELECTIVES* ..... 6 semester hours
Select from area (2) above or from other graduate disciplines with approval of the Dean of Graduate Academic Affairs.
EDUC 604 and EDAD 630 are suggested
*Thesis - The thesis may be taken in lieu of six (6) hours of elective course work. For further information the student should contact the Graduate Office.

History Curriculum
(M.A. in Education, Standard Secondary Certificate, Rank II)

1. PROFESSIONAL EDUCATION ..... 12 semester hours
EDUC 500, 501, 502, or 600
PSYH 600

2. SPECIALIZATION COMPONENT ..... 12 semester hours
Select from: HIST 421G, 446G, 470G, 475G, 521, 531, 551, 595

3. ELECTIVES* ..... 6 semester hours
Select from area (1) or (2) or from other graduate disciplines with approval of the Dean of Graduate Academic Affairs.
EDUC 604 and EDAD 630 suggested
*Thesis - The thesis may be taken in lieu of six (6) hours of elective course work. For further information the student should contact the graduate office.

Music Curriculum
(M.A. in Education, Standard Secondary Certificate, Rank II)

1. PROFESSIONAL EDUCATION ..... 12 semester hours
EDUC 500, 501, 502, or 600
PSYH 600

2. MUSIC COMPONENT ..... 12 semester hours
Choose four courses from the following:
Music 520, 570, 572, 573, 574, 575

3. ELECTIVES* ..... 6 semester hours
Select from area (1) or (2) or from other graduate disciplines with approval of the Dean of Graduate Academic Affairs.

EDUC 604 and EDAD 630 suggested
*Thesis - The thesis may be taken in lieu of six (6) hours of elective course work. For further information the student should contact the graduate office.

Psychology Curriculum
(M.A. in Education, Standard Secondary Certificate, Rank II)

1. PROFESSIONAL EDUCATION ..... 12 semester hours
   EDUC 500, 501, 502, or 600
   PSYH 600

2. SPECIALIZATION COMPONENT ..... 12 semester hours
   Select from: Psychology 402G, 460G, 461G, 470G, 565, 595, 640

3. ELECTIVES* ..... 6 semester hours
Select from area (1) or (2) or from other graduate disciplines with approval of the Dean of Graduate Academic Affairs.
EDUC 604 and EDAD 630 suggested
*Thesis - The thesis may be taken in lieu of six (6) hours of elective course work. For further information the student should contact the graduate office.

Science Curriculum - Biological Science
(M.A. in Education, Standard Secondary Certificate, Rank II)

1. PROFESSIONAL EDUCATION ..... 12 semester hours
   EDUC 500, 501, 502, or 600
   PSYH 600

2. SPECIALIZATION COMPONENT ..... 12 semester hours
   Must include BIOL 600 unless thesis option is chosen. May include ENVS 550.

3. ELECTIVES* ..... 6 semester hours
M.A. thesis (six hours) is recommended. Suggested alternative is EDUC 604 and EDAD 630 or one course from area 1 above.
*Thesis - The thesis may be taken in lieu of six (6) hours of elective course work. For further information the student should contact the graduate office.

Science Curriculum - Chemistry and/or Physical Science
(M.A. in Education, Standard Secondary Certificate, Rank II)

1. PROFESSIONAL EDUCATION ..... 12 semester hours
   EDUC 500, 501, 502, or 600
   PSYH 600

2. SPECIALIZATION COMPONENT ..... 12 semester hours
A minimum of six (6) hours in Chemistry or Physics. Must include CHEM or PHYS 600 unless thesis option is chosen below. An additional six hours should be chosen from courses in the major or minor teaching fields. GNSC 584 may be included.

3. ELECTIVES* ..... 6 semester hours
M.A. thesis (six hours) is recommended. Suggested alternative is EDUC 604 and EDAD 630 or one course from area 1 above.
*Thesis - The thesis may be taken in lieu of six (6) hours of elective course work. For further information the student should contact the graduate office.

Social Science Curriculum•
(M.A. in Education, Standard Secondary Certificate, Rank II)

1. PROFESSIONAL EDUCATION ..... 12 semester hours
EDUC 500, 501, 502, or 600
PSYH 600

2. SPECIALIZATION COMPONENT ..... 12 semester hours
Select from: SOCI 421G, 433G, 460G, 464G, 511, 595
HIST 421G, 446G, 470G, 475G, 521, 531, 551, 595

3. ELECTIVES* ..... 6 semester hours
Select from area (1) or (2) or from other graduate disciplines with approval of the Dean of Graduate Academic Affairs.
EDUC 604 and EDAD 630 suggested
*Thesis - The thesis may be taken in lieu of six (6) hours of elective course work. For further information the student should contact the graduate office.
•Open to those holding certification in a social studies concentration or having a history major or minor.

Sociology Curriculum
(M.A. in Education, Standard Secondary Certificate, Rank II)

1. PROFESSIONAL EDUCATION ..... 12 semester hours
EDUC 500, 501, 502, or 600
PSYH 600

2. SPECIALIZATION COMPONENT ..... 12 semester hours
Select from: SOCI 421G, 433G, 460G, 464G, 511, 595

3. ELECTIVES* ..... 6 semester hours
Select from area (1) or (2) or from other graduate disciplines with approval of the Dean of Graduate Academic Affairs.
EDUC 604 and EDAD 630 suggested
*Thesis - The thesis may be taken in lieu of six (6) hours of elective course work. For further information the student should contact the graduate office.

High School Fifth-Year Non-Degree Curriculum*
(Standard Certificate, Rank II)

Requirements for students holding provisional secondary teaching certification and desir-ıg to earn a fifth-year non-degree program are listed on page 17.

. PROFESSIONAL EDUCATION ..... 12 semester hours
EDUC 500, 501, 502, or 600
PSYH 600

. SPECIALIZATION COMPONENT ..... 12 semester hours
Iust be selected from teaching major or minor or closely-related field. Course selection may ıclude courses numbered 581, 681 (special topics) and/or 582, 682 (special workshops), owever courses must be approved by advisor and Dean of Graduate Studies. Six hours must e graduate level.

. ELECTIVE COMPONENT ..... 8 semester hours
Iay be chosen from the area of specialization or other graduate courses - Education or non-ducation, depending upon interests and needs of student. However, selection must be made ı sequence with previous preparation. Courses numbered 583, 683 (Kentucky Educational TV Ietwork) may be included.
Comprehensive exams are not required for the Fifth-Year Certificate.

Rank I Certificate

The preparation program for Kentucky's Rank I classification under the Foundation Law ıall be planned in advance by the candidate and the graduate advisor in terms of one (1) or ıore of the following purposes:

ı) To improve the professional competency for the position covered by the initial teaching certificate;
ɔ) To extend the scope of professional competency to some certification area not covered by the initial certificate;
:) To obtain preparation -certification required for professional advancement to a higher position.

Rank I classification requires the completion of a planned program of 30 semester hours eyond the Master's level. The program for the Rank I must include a minimum of 12 hours of 00 level courses and may include a maximum of six hours of 400G level courses. Education 670 Directed Field Project is required of all students.

Each program is especially planned for the student and requires a conference with the Dean f Graduate Academic Affairs or an Adviser prior to enrollment. Up to 15 hours credit may be ansferred from other graduate institutions if appropriate to the student's planned program nd if the final grade achieved is at least a "B".

A grade point of at least 3.0 is required for certification and no comprehensive examination ; required. Correspondence courses may not be transferred into the program.

Although each program is individualized, the guidelines below will prevail in the planning f the program. Some courses may have been taken at the Master's level, and appropriate ourses may be substituted with the permission of the Dean of Graduate Affairs.

Students who are admitted to Rank I program must:

1. Make application and have two different transcripts sent to the Graduate Office, Union College. (There is no application fee for students who receive the M.A. or Fifth-Year cer ificate at Union College.)
2. Submit latest certificate earned to Graduate Office.

Students who complete requirements for Rank I must file a request in the Registrar's Offic for transcripts to be sent to appropriate officials. This applies to all students who are completin Rank I for certification or a change in rank or both. Proper Certification forms are available i the Registrar's Office and should be secured before the end of the term in which the student completing his/her work.

Elementary, Middle, or High School Teacher (Rank I)*

1. PROFESSIONAL EDUCATION ..... 9 semester hour
Must include EDUC 500, 501, 670
Suggested courses EDUC 511, PSYH 470G, 650

2. SPECIALIZATION COMPONENT ..... 12 semester hour
Include only non-education courses
Suggested courses: PSYH 565 and 600

3. RELATED FIELDS ..... 9 semester hour
Must include EDUC 603 or 604, EDAD 63
Remaining courses should be selected from: EDUC 468G, 502, 600, 620

*Some courses listed as required may have been taken at the M.A. or Fifth-year level. Appropr ate courses may be substituted by consulting with adviser or Dean of Graduate Academi Affairs.

Principalship Certification Programs

Students may earn certification for the principalship program with 18 graduate hour above the M.A. degree of required courses. This certifies the student for Level I after completio of the Internship Program which is valid for five years. For continued certification the studer must earn 12 additional required graduate earning Level II Certification and Rank I.

The students must fulfill the following requirements to be admitted to any level c Principalship Certification:

A. Submit transcript indicating completion of M.A. degree.
B. Submit copy of Standard Teaching certificate valid for regular classroom teaching for th grade levels for which he/she plan to be an administrative leader.
C. Present evidence of three years of full-time teaching.
D. Submit two formal recommendations (forms in Graduate Office).
E. Have a G.P.A. of 3.00 on graduate work earned.
F. Meet required current cut-off point of the N.T.E.

Professional Certificate for Instructional Leadership Elementary School Principalship, K-4

Prerequisite Courses

EDUC 500	Methods of Educational Research
EDUC 520	Techniques & Materials for Classroom Reading Instruction or
EDUC 530	Diagnostic and Remedial Procedures in Reading
EDUC 501	History and Philosophy of Education
EDUC 502	Curriculum Design or
EDUC 600	Advanced Curriculum
PSYH 565	Psychology of Exceptional Children
EDUC 603	Elementary School Curriculum
PSYH 600	Advanced Human Development or
PSYH 650	Advanced Education Psychology

Level I Certification Requirements

EDUC 511	Tests and Measurements
EDUC 573	Computers in Education
EDUC 676	Research and Seminar in Elementary Education
EDAD 645	School Organization & Administration
EDAD 654	Improvement of Instruction Through Supervision
EDAD 655	The Elementary School Principal

Level II Certification and Rank I Requirements

EDAD 630	School Law
EDAD 640	School Finance and Business Management
EDAD 669	School and Community Relations
EDAD 670	Directed Field Project - Personnel Administration

In addition to receiving Principalship Certification, the student will receive certification as Supervisor of Instruction, K-4.

A certificate based upon Level II preparation as a middle grade principal may be extended to early elementary school principal, grades K-4, upon completion of nine (9) semester hours of graduate credit which shall include, but not be limited to:

1. Elementary school curriculum;
2. Teaching reading at the elementary school level;
3. Organization and administration of the elementary school; and
4. Field experience in an elementary school

For further details the student should contact the Graduate Office.

Professional Certificate for Instructional Leadership Middle School Principal, 5-8

Prerequisite Courses

EDUC 500	Methods of Educational Research
EDUC 502	Curriculum Design or
EDUC 600	Advanced Curriculum
EDUC 520	Techniques & Materials for Classroom Reading Instruction or
EDUC 530	Diagnostic and Remedial Procedures in Reading
EDUC 605	The Middle School Curriculum
EDUC 601	Advance Study of the Middle Grade Child
PSYH 565	Psychology of Exceptional Children

Level I Certification Requirements

EDUC 511	Tests and Measurements
EDUC 573	Computers in Education
EDUC 677	Research & Seminar on the Middle School
EDAD 645	School Organization & Administration
EDAD 654	Improvement of Instruction Through Supervision
EDAD 657	The Middle School Principal

Level II Certification and Rank I Requirements

EDAD 630	School Law
EDAD 640	School Finance and Business Management
EDAD 660	School & Community Relations
EDAD 670	Directed Field Project in Personnel Administration

In addition to receiving Principalship Certification, the student will receive Certification as Supervisor of Instruction, 5-8.

A certificate based upon Level II preparation as an early elementary school principal or as a secondary school principal may be extended to middle grade principal 5-8 upon completion of six semester hours of graduate credit which shall include, but not be limited to:

1. Organization and administration of middle grade schools;
2. Philosophy and curriculum of middle grade schools; and
3. Nature and needs of middle grade school students.

The validity of the extend certificated shall be limited to the respective grade levels, either K-8 or 5-12.

For further details the student should contact the Graduate Office.

Professional Certificate for Instructional Leadership Secondary School Principal, 9-12

Prerequisite Courses

EDUC 500	Methods of Educational Research
EDUC 501	History and Philosophy of Education
EDUC 502	Curriculum Design or
EDUC 600	Advanced Curriculum
EDUC 604	Secondary School Curriculum
PSYH 600	Advanced Human Development or
PSYH 650	Advanced Educational Psychology
PSYH 565	Psychology of Exceptional Children

Level I Certification Requirements

EDUC 511	Tests and Measurements
EDUC 573	Computers in Education
EDUC 678	Research & Seminar in Secondary Education
EDAD 645	School Organization & Administration
EDAD 654	Improvement of Instruction Through Supervision
EDAD 656	The Secondary School Principal

Level II Certification and Rank I Requirements

EDAD 630	School Law
EDAD 640	School Finance and Business Management
EDAD 660	School & Community Relations
EDAD 670	Directed Field Project in Personnel Administration

In addition to receiving Principalship Certification, the student will receive Certification as Supervisor of Instruction, 9-12.

A certificate based upon Level II preparation as a middle grade principal may be extended to secondary school principal, grades 9-12, upon completion of six semester hours of graduate credit which shall include, but not be limited to:

1. Secondary school curriculum;
2. Organization and administration of the secondary school; and
3. Field experience in a secondary school.

For further details the student should contact the Graduate Office.

Supervisor of Instruction Certification Program K-12

The student must:

1. Submit transcript indicating completion of M.A. degree.
2. Submit copy of Standard Teaching Certificate of one of the following type certificates held: Standard elementary 1-8, Standard elementary K-4, Standard middle grades 5-8, Standard high school 7-12, Standard high school 9-12, Standard - exceptional children (except speech and communication disorders.)
3. Submit evidence of three years of full-time teaching.
4. Submit two formal recommendations (forms in Graduate Office).
5. Show evidence of G.P.A. of 3.00 on graduate work earned.
6. Meet required cut-off point of the N.T.E.

Prerequisite Courses

EDUC 500	Methods of Educational Research
EDUC 501	History & Philosophy of Education
EDUC 511	Tests & Measurements
EDUC 502	Curriculum Design or
EDUC 600	Advanced Curriculum
EDUC 520	Techniques & Materials for Classroom Reading Instruction
PSYH 600	Advanced Human Development or
PSYH 650	Advanced Educational Psychology

Level I Certification Requirements

EDAD 645	School Organization & Administration
EDAD 654	Improvement of Instruction Through Supervision
EDUC 603	Elementary School Curriculum or
EDUC 605	The Middle School Curriculum
EDUC 604	Secondary School Curriculum
EDUC 680	Research & Seminar in Supervision
PSYH 565	Psychology of Exceptional Children

Level II Certification and Rank I Requirements

EDAD 630	School Law
EDAD 660	School & Community Relations
PSYH 640	Group Processes
EDUC 670	Directed Field Project

Course Descriptions

Each course is offered for three semester hours of credit unless otherwise noted.

BIOLOGY

BIOL 561. Topics in Biological Science (3)

A lecture and discussion approach to topics and issues of contemporary importance and interest in the biological sciences. One topic will be extensively explored each term or semester that the course is offered. The course may be repeated when an alternate topic is emphasized. Possible topics include: Cancer, Immunobiology, Human Evolution, Human Reproduction and Development, Human Genetics, Plants and People, etc.

BIOL 600. Research Investigations (3)

An independent research problem in which the student must demonstrate his ability to employ the scientific method in carrying out an original scientific investigation. A typewritten and bound manuscript will be required. An examination may or may not be given, depending on the nature of the problem selected. Prerequisite: Permission of the instructor and approval of the head of the department.

CHEMISTRY

CHEM 421G. Biochemistry (3)

Study of the chemistry, energetics, and metabolism of biomolecules, such as carbohydrates, proteins, lipids, nucleic acids, enzymes and vitamins with reference to living systems. Prerequisite: CHEM 312 Organic Chemistry or its equivalent.

CHEM 561. Selected Topics in Chemistry (3)

Topics to be chosen from current and/or specialized areas of chemistry such as industrial or environmental chemistry and will vary according to students need. May be repeated for a maximum of 6 credit hours if topics differ. For secondary teachers of chemistry, physics and biology.

CHEM 600. Research Investigations (3)

An introduction to research in which the student must demonstrate an ability to use the scientific method by conducting an original scientific investigation. A typewritten report will be required. An examination may or may not be given, depending on the nature of the problem selected. Prerequisite: Permission of instructor and approval of the Division Chair and Dean of Graduate Academic Affairs.

ECONOMICS

ECON 601. Economics for Teachers (3)

This course is designed for teachers in any subject area, at any grade level, and assumes no background in economics. Its purpose is to share with teachers the variety and scope of opportunities to include economic education in whatever they teach. Teachers in this course discover that they already know and teach economics without realizing it, and learn of ways to expand this instruction, or to develop their own plans for teaching economics to their students. Teachers pursuing any advanced degree qualify for the course.

ECON 605. Consumer Economics for Teachers (3)
The principal objective of this course is to help teachers learn areas of consumer economics the can teach to their students. These topics may be applied at any level, K-12. The course will als provide education in consumer economics issues which will be of personal interest and use teachers as consumers.

EDUCATION

EDUC 401G. Introduction to Counseling and Guidance (3)
Educational, sociological, and psychological foundations of counseling and guidance in school colleges and related service oriented agencies. Includes essential counseling and guidan services, policies, practice and procedures.

EDUC 440G. Introduction to Early Childhood Education (3)
Survey of the physical, emotional, mental, and psychological development of the child und ten, and the role of the early elementary teacher in working with such a child.

EDUC 441G. Teaching Social Studies (3)
Methods and materials for the teaching of elementary school social studies including kinderga ten through eight curricula. The philosophies, terminology, and evaluation methods an materials will be included.

EDUC 460G. Learning Theories for Educators (3)
The major focus of this course is an exploration of how individuals learn, including specif learning theories and their relation to classroom teaching.

EDUC 468G. Educational Media (3)
A study of the multi-media approach in classroom instruction, with guidelines for the selectio production, evaluation, and use of audio-visual materials and equipment.

EDUC 500. Methods of Educational Research (3)
Types of research, selection of problems, collection and classification of data; organizatio presentation, and interpretation of materials. Includes unit on computer use and practice.

EDUC 501. History and Philosophy of Education (3)
The historical antecedents of American education and the influence of various education philosophies are explored. Particular attention is given to the main philosophical approache to teaching, with emphasis on students developing a rationale and strategy for incorporatin these ideas in the classroom setting.

EDUC 502. Curriculum Design (3)
Curricula organization, materials, and methods. Techniques for evaluating and constructin curricula. A unit addressing pupil needs resulting from exceptionality and multicultura differences is included.

EDUC 510. Statistics I (3)
Designed to aid teachers and administrators in their understanding and use of elementar statistical terminology and procedures. Statistical concepts useful in analyzing and interpretin data from published research are emphasized.

EDUC 511. Tests and Measurements (3)
nstruments and techniques for evaluating abilities, aptitudes, personality traits, and interests xamined, and teacher-made evaluative instruments given special emphasis. Application of est results to vocational and educational guidance stressed. Special attention to the exception hild in the evaluative process.

EDUC 520. Techniques and Materials for Classroom Reading Instruction (3)
A foundation course which includes a general review of the following reading skills: Word ecognition, comprehension, and fluency. An in-depth study of the various approaches to eaching reading will be included. Students will become familiar with various techniques of nstruction, the organization of the reading program, and a variety of reading materials. Simple nethods of diagnosis are discussed.

EDUC 530. Diagnostic and Remedial Procedures in Reading (3)
Current research findings in diagnostic and remedial procedures in reading. Techniques for pplying diagnostic instruments for locating causes of serious reading deficiencies are devel-ped, along with suggested remedial procedures.

EDUC 532. Techniques and Materials for Remedial Reading (3)
Techniques and materials appropriate to the diagnosis and correction of reading difficulties. Course requirements include auditory and visual screening, diagnostic testing, and conduction f a clinical case study. Prerequisite: EDUC 530. Offered in odd numbered years only.

EDUC 535. Practicum in Teaching Reading with Clinic (3)
Practice involving traditional and behavioral science methodologies for remediation of reading lisabilities. Extensive experience using group methodology that employs operant condition-ng, respondent, and perceptual learning paradigms. Normally taken concurrently with PSYH 25 - Psychology of Reading. Offered in odd numbered years only.

EDUC 540. Laboratory Experiences in Elementary Education (1-8) (3)
A substitute for student teaching for elementary majors. Considers current problems and trends n teaching with laboratory periods for construction of classroom materials. Classroom teaching xperiences with elementary children are included. Prerequisite: One year of successful lassroom teaching experience. Summer only.

EDUC 542. Fundamentals of Kindergarten Education (3)
This course focuses on kindergarten curriculum, materials, organization of the kindergarten rogram, creative experiences for the pre-school child, parent education and home visitation, nderstanding of families, community resources, planning learning experiences, and evalua-ion of pupil programs and progress. Direct observation and participation in the kindergarten etting.

EDUC 545. Practicum in Kindergarten Education (6)
This course offers direct, guided, supervised experience with kindergarten children under the upervision of a qualified kindergarten teacher. Offered in even numbered years only.

EDUC 550. Foundations of Gifted Education (3)
A study on gifted education that will enable teachers to identify and work with the gifted tudent. Includes discussion of the various categories of giftedness other than I.Q. The course will also include: screening and evaluating, needs assessment, and counseling techniques.

EDUC 551. Curriculum Development for Gifted Education (3)
This course involves designing curriculum models and curriculum guides, and developin scope and sequence charts for gifted education. The course offers exploration into the differer types of programs and how these programs will be implemented. (It will make an attempt to f the program to the giftedness of individual students.)

EDUC 552. Instructional Strategies and Materials for Releasing Creativity in Gifted Educa tion (3)
The course focuses on instructional strategies and materials needed for releasing creativity fc the gifted student. It will have a relaxed atmosphere conducive to drawing forth creative an inductive thinking on the part of the student. A variety of sources of materials will be used.

EDUC 553. Practicum for Gifted Education (3)
A supervised practicum course in gifted education for teachers who have successfully com pleted at least three years of teaching experience. The course emphasizes working directly wit gifted students, writing units and lesson plans, developing learning centers, and doin demonstration teaching in the classroom with gifted students from the community.

EDUC 560. Supervision of Student Teaching (3)
Designed for classroom teachers who assume the responsibility of supervising student teacher Experiences deemed necessary for developing students into effective teachers are considere Prerequisite: One year of teaching experience or consent of the instructor.

EDUC 573. Computers in Education (3)
Designed for teachers, supervisors and administrators. A hands-on experience with microcom puter operation, introduction to BASIC, use of software, and information about instructiona and management uses in schools. No previous experience with microcomputers required.

EDUC 595. Graduate Independent Study (1-3 hours)
Guided study and research toward the solution of specific educational problems encountere by students. Open to students at 5th year level.

EDUC 599. Master's Thesis (6)

EDUC 600. Advanced Curriculum (3)
Study of theory, principles, practices, procedures in current curriculum development an reorganization. Prerequisites: EDUC 502, 603, or 604 or by permission of professor.

EDUC 601. Advanced Study of the Middle Grade Child (3)
Focuses on the physical, intellectual, personal, social and moral development of children in fift through the eighth grades, ages 10-13. Socializing influences such as families, peers, school an mass media are included. The relationship of the transescent child to other age groups i considered.

EDUC 603. Elementary School Curriculum (3)
Curricular organization, materials, and methods currently used in elementary schools. Tech niques for evaluating and constructing curricula.

EDUC 604. Secondary School Curriculum (3)
Curricula organization, materials, and methods currently used in secondary schools. Tech niques for evaluating and constructing curricula.

EDUC 605. Middle School Curriculum (3)
Curricula organization, materials, and methods currently used in middle schools. Techniques for evaluating and constructing curricula.

EDUC 620. Teaching Reading in the Content Field (3)
Considerations of provisions and procedures for developing reading skills needed at the upper elementary and junior-senior high school level; various types of reading improvement programs, reading tests, and remedial programs at the upper grade levels. EDUC 520 or 530 recommended as prerequisites.

EDUC 635. Laboratory Experience in Education (K-4) (3)
A substitute for student teaching for early childhood (K-4) majors. The course will include current problems and strategies in teaching, with laboratory periods for construction of classroom materials. Classroom teaching experiences with young children will be included. Prerequisite: one year of successful classroom experience. Summer only.

EDUC 670. Directed Field Project (3)
Required in all Rank I programs. Following prescribed guidelines, the student works on a problem of practical significance in the classroom, school, or school district and prepares a formal project report. A written project proposal is prepared during the first month of the course, and students are expected to complete course requirements by the end of the term in which they are registered. Regular consultation with the project supervisor is expected. Prerequisites: Completion of 12 semester hours toward Rank I certification, and permission of the project supervisor.

EDUCATIONAL ADMINISTRATION

EDAD 630. School Law (3)
History of legal provisions for public education in the United States, interpretation and application of present school law, federal and state.

EDAD 640. School Finance and Business Management (3)
Federal, state and local financing of schools, equalization of educational opportunities, sources of school revenue, school budgets, business methods of accounting.

EDAD 642. Administration of Pupil Personnel Services (3)
Emphasizes roles and responsibilities related to the organization and administration of pupil personnel services.

EDAD 643. Pupil Personnel Accounting and Records Management (3)
Emphasizes systematic procedures in pupil personnel accounting and records management as related to the financing of public education and the protection of student rights.

EDAD 645. School Organization and Administration (3)
Organization of the modern public school, staff-teacher relationships, programs of studies, teacher records and reports, personnel and public relations, utilization of teacher time and physical facilities, and the impact of judicial policy making.

EDAD 650. School Plant and Transportation (3)
Planning, construction and maintenance of school plants, the operation and administration of programs for pupil transportation.

EDAD 654. Principles of Supervision (3)
A study of the purposes, principles, and techniques of educational supervision. Emphasis on th instructional aspects of school administration.

EDAD 655. The Elementary School Principal (3)
An analysis of the role of the principal in the modern elementary school.

EDAD 656. The Secondary School Principal (3)
An analysis of the role of the principal in the modern secondary school.

EDAD 657. The Middle School Principal (3)
An analysis of the role of the principal in the modern middle school.

EDAD 660. School and Community Relations (3)
An examination of school-community relationships. Special emphasis on leadership roles operational modes, communication with regard to public school relations.

EDAD 676. Research and Seminar in Elementary Education (3)
Designed to acquaint the student with recent research and to identify trends, innovations, and problems in elementary education. The student works in a practicum setting for 25 clock hour under a qualified administrator, reports on recognized research studies, keeps a log o practicum experiences, and participates in scheduled seminars.

EDAD 677. Research and Seminar in the Middle School (3)
Designed to acquaint the student with recent research and to identify trends, innovations, and problems in middle school education. The student works in a practicum setting for 25 cloc hours under a qualified administrator, reports on recognized research studies, keeps a log o practicum experiences, and participates in scheduled seminars.

EDAD 678. Research and Seminar in Secondary Education (3)
Designed to acquaint the student with recent research and to identify trends, innovations, and problems in secondary education. The student works in a practicum setting for 25 clock hour under a qualified administrator, reports on recognized research studies, keeps a log o practicum experiences, and participates in scheduled seminars.

EDAD 680. Research and Seminar in Supervision (3)
Designed to acquaint the student with recent research and to identify trends, innovations, and problems in supervision. The student works in a practicum setting for 25 clock hours under a qualified administrator, reports on recognized research studies, keeps a log of practicum experiences, and participates in scheduled seminars.

ENGLISH

ENGL 401G. Modern Grammar (3)
An intensive review of traditional grammar in combination with selected material from structuralist views of linguistic analysis and theories of transformational grammar. Attention is paid to the practical application of each. Offered in even numbered years only.

ENGL 402G. Advanced Composition (3)
For the student who wishes to become a more competent writer. Research papers, factua narratives, argumentation, and "creative" writing are assigned according to the needs and aptitude of the student. Offered in even numbered years only.

NGL 419G. Composition for Teachers (3)
eview of basic elements of composition with regular writing assignments in both expository nd argumentative modes. Techniques of marking and evaluation of student papers. Research echniques, a methodology for teaching students to develop a research paper and practical pplication of the methodology through the assignment of a research paper as an integral part f the course itself. (On demand.)

NGL 421G. History of the English Language (3)
study of the origins and development of the English language from Anglo-Saxon times to the resent. Supplementary readings in early and medieval English history with emphasis on the ffects of historical events on language change. Offered in odd numbered years only.

NGL 431G. Contemporary American Literature: Fiction (3)
critical and historical study of the major American fiction (short stories and novels) since 1940, eginning with Richard Wright and J.D. Salinger and proceeding through the experimental iction of the present time.

NGL 451G. Modern Poetry (3)
merican and British poetry, with consideration of ways of reading, criticizing, and writing erse in this century. Offered in odd numbered years only.

NGL 521. Advanced Study of English Literature, 500-1700 (3)
ntensive study of some phase of English literature within this period. This course may be taken nore than once providing that the course content is different. The class schedule will designate he specific content covered.

NGL 522. Advanced Study of English Literature, 1700-Present (3)
ntensive study of some phase of English literature within this period. This course may be taken nore than once providing that the course content is different. The class schedule will designate he specific content covered.

NGL 541. Advanced Study of American Literature, 1600-1860 (3)
ntensive study of some phase of American literature within this period. This course may be aken more than once providing that the course content is different. The class schedule will designate the specific content covered.

NGL 542. Advanced Study of American Literature, 1860-Present (3)
ntensive study of some phase of American literature within this period. This course may be aken more than once providing that the course content is different. The class schedule will designate the specific content covered.

NGL 572. Special Topics in Literature (3)
ntensive study of a literary topic of special interest to secondary teachers. This course may be aken more than once providing that the course content is different. The class schedule will designate the specific content covered.

NGL 595. Independent Study in English (3)
ndependent study of research on an approved topic. May be repeated for credit.

NGL 599. Master's Thesis (6)

ENVIRONMENTAL STUDIES

ENVS 469G. The Appalachian Environment (3)
Conservation of natural resources including soil, water, wildlife, and forests as interrelated components of the environment. Current problems relating to the environmental quality of the Appalachian region. Prerequisites: Two courses in environmental studies or biology and some knowledge of economics. Offered in Summer and on demand.

ENVS 550. Environmental Education Strategies (3)
A two-week workshop designed to foster a greater understanding of our environment through a combination of classroom and direct first-hand experiences. Conducted in cooperation with the USDA Forest Service and the Kentucky Division of Forestry. Offered in Summer only.

FINE ARTS

FNAT 501. Fine Arts in the Elementary School (3)
Fine Arts in the Elementary School is designed to enhance the teaching of Music, Art, and Drama in the Elementary School.

GENERAL SCIENCE

GNSC 401G. Science: Concepts, Processes, and Inquiry (3)
The student will examine the processes of science such as collecting data, measuring, predicting, formulating hypotheses, and experimenting. As materials from such new science programs as ESS, SCIS, IME, IIS and ISCS are used, the basic concepts as well as content of science will be reviewed. The inquiry approach to teaching a science will be stressed, along with learning theory and laboratory equipment use (commercial and handmade).

GNSC 525. Science for the Elementary Grades (3)
Application of modern learning theories and psychological foundations to the teaching of science in the elementary grades. Includes discussion of trends in science education, applications of research to teaching, and special problems that occur in schools.

GNSC 561. Topics in Physical Science (3)
Enrichment and updating elementary and middle grade school teachers on selected topics in astronomy, physical science and modern physics. Selected science journal off-prints will be reviewed. The course will include several lecture demonstrations and hands-on experience with some laboratory equipment.

GNSC 584. Plate Tectonics (3)
A theory which professional geologists scoffed at only a few years ago has revolutionized earth science in the last two decades. In this combination lecture/laboratory course, students will construct models and analyze actual data to reconstruct the historical development of this important theory.

GNSC 595. Research Investigations (3)
An independent research problem in which the student must demonstrate his ability to employ the scientific method in carrying out an original scientific investigation. A typewritten and bound manuscript will be required. An examination may or may not be given, depending on the nature of the problem selected. Prerequisite: Permission of the instructor and approval of the head of the department.

GNSC 599. Master's Thesis (6)

HEALTH

LTH 451G. School and Community Health (3)
eveals the relationship needed between the school and community to promote the total health the population. Speakers are secured from official agencies, voluntary agencies, professional encies, sponsored agencies, and other colleges. Small groups are utilized for discussion, field ps, and study through audio-visual aids. A variety of health areas are covered, including itrition, physical fitness, drugs, alcohol, tobacco, human sexuality, and emotional health.

LTH 475G. Critical Areas in Health (3)
ecific health problems confronting society today, with particular reference to secondary-age udents.

LTH 551. Readings in Health (3)
course enabling the students to research the literature in the area of health, not only to increase sic knowledge, but to become acquainted with current trends and issues.

LTH 582. Safety Education (3)
ccident problems in the home, in the school, at work, and on the highways are discussed with e purpose of being able to influence those who teach by preparing them in the various areas safety. Groups specialized in a variety of safety areas, such as National Safety Council, merican Red Cross, Bureau of Mines, and Kentucky State Police will be utilized.

LTH 595. Independent Study (3)
dependent study in the field of health. May include practical field experiences.

LTH 599. Master's Thesis (6)

HISTORY

IST 421G. The Middle Period (1821-1850) (3)
detailed examination of Jackson, politics, and the culture of the period. The course emphasizes e Age as one of chaos, and considers conflicting interpretations of the period.

IST 446G. History of Russia (3)
ussia history since 1689.

IST 470G. Twentieth Century America (3)
lected topics on the Nation's history since 1900.

IST 475G. Special Topics in History (3)
esigned for teachers in special areas of interest.

IST 521. History and Culture of Appalachia (3)
is course focuses primarily on the impact of industrialization and modernization in Souther ppalachia since the Civil War. It emphasizes the great diversity of historical and cultural perience within the Region.

IST 531. The American Revolutionary Era (3)
e background of the revolution. The Continental Congress and the Confederation at work; ternal problems and strife; military and naval events; foreign relations; the road to final dependence and peace. Offered in even numbered years only.

HIST 551. Civil War and Reconstruction (3)
A study of the Civil War and Reconstruction period in American history.

HIST 561.
Directed readings and class discussion on topics in world history since 1789.

HIST 595. Independent Study (3)

HIST 599. Master's Thesis (6)

MATHEMATICS

MATH 531. Topics in Modern Math for Elementary Teachers (3)
A study from a historical and theoretical viewpoint of topics in mathematics taught elementary grades. Number systems, number theory, real numbers, logic, geometry, probab ity and statistics. Credit not granted to students who have completed both MATH 203 and 2(Offered in Summer only.

MATH 532. Modern Math Laboratory (3)
An active involvement in laboratory experiments with multibase blocks, sets, Cuisenaire roc geoboards, etc; development of skills in the production and use of teacher-made materi problem solving techniques. Prerequisites: MATH 531 or MATH 203-204 are recommende Offered in Summer only.

MATH 595. Independent Study (3)

MUSIC

MUSC 520. Special Topics in Music History and Literature (3)
Intensive study and research pertaining to a selected composer, genre, or historical period.

MUSC 570. History and Literature of the Wind Band (3)
A survey of the history and development of wind band instrumentation and literature from t 18th century to the present.

MUSC 572. Advanced Choral Conducting (3)
Advanced study and drill in the areas of conducting and rehearsal technique, voice-building f choirs, score study, and performance practice.

MUSC 573. Survey of Choral Literature (3)
A study of works representing the major genres of choral music from the Renaissance to t present.

MUSC 574. Advanced Instrumental Conducting (3)
A practical study of instrumental conducting techniques, with emphasis on physical techniqu score study, rehearsal procedure, and stylistic interpretation. Prerequisite: Undergradua instrumental conducting or permission of the instructor.

MUSC 575. Computer Application in Music (CAIM) (3)
A survey of equipment and software available for computer assisted instruction in the pub schools, including programming techniques for creating locally focused instructional modul

MUSC 595. Independent Study (3)

MUSC 599. Master's Thesis (6)

PHYSICAL EDUCATION

PHED 425G. Psychological Foundations of Sport and Human Performance (3)
A combination undergraduate/graduate level course exploring the field of Applied Sport Psychology. The objective of the course is to enable students to comprehend and apply available information in order to enhance their effectiveness as coaches and teachers.

PHED 501. Health, Nutrition, and Physical Education (3)
A comprehensive course involving issues, concerns, and program design in health, nutrition, and physical education at the elementary school level.

PHED 525. Motor Learning in Physical Education (3)
An in-depth study of motor learning theories, principles, and applications for physical education programs.

PHED 550. Seminar in Physical Education (3)
An advanced course of selected topics of interest in the field of Physical Education.

PHED 595. Independent Study (3)

PHED 599. Master's Thesis (6)

PHYSICS

PHYS 401G. Principles of Modern Physics (3)
Elementary concepts of quantum mechanics. Selected topics in atomic and nuclear physics. Prerequisites: Two semesters of calculus.

PHYS 411G. Classical Mechanics (3)
For secondary teachers of physics. Motion of a particle; systems of particles and rigid bodies; moving coordinate systems; Lagrange's equations; small oscillations. Prerequisite: Three semester of calculus.

PHYS 600. Research Investigations (3)
An introduction to research in which the student must demonstrate an ability to use the scientific method by conducting an original scientific investigation. A typewritten report will be required. An examination may or may not be given depending on the nature of the problem selected. Prerequisite: Permission of instructor and approval of the Division Chair and Dean of Graduate Academic Affairs.

PSYCHOLOGY

PSYH 402G. Counseling Theories and Techniques (3)
Basic theories, types, and techniques of counseling. Practice in individual and group techniques of interviewing.

PSYH 460G. Theories of Personality (3)
Nature of personality structure and dynamics. Classical psychoanalysis, social psychological, and stimulus-response theories included.

PSYH 461G. History and Systems of Psychology (3)
Origins of psychological thought within science and philosophy, tracing the development systems and theories with German, British and American psychology.

PSYH 470G. Theories of Learning (3)
Basic fundamentals of learning theory as formulated by such theorists as Thorndike, Pavlo Guthrie, Skinner, and Hull. Attention is given to the empirical support of various theories pl recent developments in cognitive psychology.

PSYH 525. Psychology of Reading (3)
Theory and applications of learning principles as applied to the reading processes. Maj emphasis relates to respondent, operant, and perceptual learning paradigms. Offered in oc numbered years only.

PSYH 565. Psychology of Exceptional Children (3)
Survey course on children with special educational needs. The nature, cause and interventi of exceptionality.

PSYH 595. Independent Study (3)

PSYH 599. Master's Thesis (6)

PSYH 600. Advanced Human Development (3)
Psychological development from birth to maturity. Emphasis upon the principal concepts ar problems in the development of the individual. Exceptionality and multicultural differences a considered.

PSYH 640. Group Processes (3)
A study of theory and practice in group dynamics. The process and implications of grou processes, group counseling, and the human potentiality are explored.

PSYH 650. Advanced Educational Psychology (3)
The study of advanced psychological concepts and principles as applied to classroom manag ment and student learning. Major emphasis is given to the translation of theoretical foundatio of psychological knowledge to practical classroom applications. Behavioral, cognitive, ar humanistic perspectives are explored in relation to teacher-student relationships.

SOCIOLOGY

SOCI 421G. Rural and Urban Sociology (3)
Comparative and interrelated study of urban and rural life considering the physical, instit tional, social and economic factors of modern life in cities and in the countryside.

SOCI 433G. Social Change (3)
Introduces students to the problems of development and change. Examples will be drawn fro Third World models of development, nationalism, imperialism, environmentalism, and huma rights. The course in interdisciplinary, with emphasis on historical, economic, environment and sociological aspects.

SOCI 460G. Sociological Theory (3)
The major theories which have proved useful in investigating the nature of society are examine as cultural products, ideologies, and scientific models. Special attention is given to major figure

uch as Comte, Durkheim, Weber, Merton, C. Wright Mills, White, and Sorokin in the mergency and convergence of their theoretical development. Lecture and discussion in a eminar setting.

OCI 464G. Sociology of Deviance and Criminology (3)
his course will develop an understanding of the social definitions and implications of eviance. Various types of deviant behavior and relevant theories of society will be addressed.

OCI 511. Educational Sociology (3)
n analysis of schooling and education in a social, historic, and economic perspective. Special ttention is given to the socialization of the child within and outside the school in light of the ominant culture forces in Western Society.

OCI 595. Independent Study (3)

OCI 599. Master's Thesis (6)

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ra L. Cooper, M.S.L.S., *Head Librarian*

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Graduate Advisory Council

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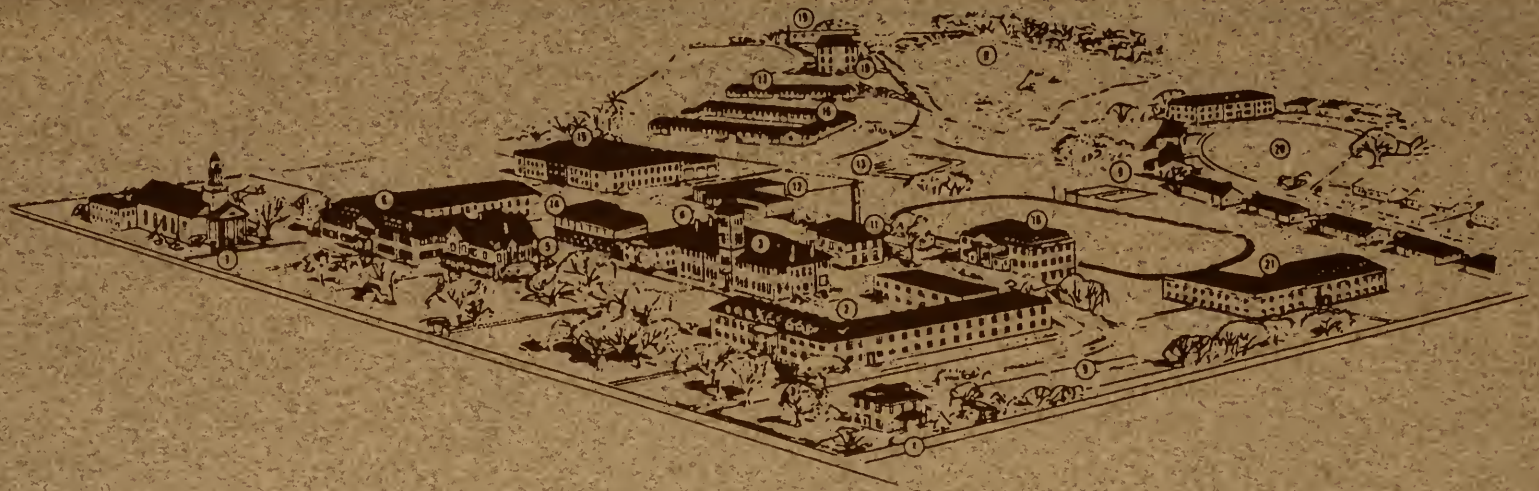

P. Parking
1. Baldwin Place, President's Residence
2. Stevenson Hall, Men's Residence Hall
3. Centennial Hall Historic Landmark, Classroom Building
4. Abigail E. Weeks Memorial Library & Annex
5. Speed Hall, Administration Building
6. Pfeiffer Hall, Women's Residence Hall
7. Conway Boatman Chapel
8. Fine Arts Building
9. Tennis Courts
10. Soldiers and Sailors Intramurial Center
11. Campus Post Office/Data Processing Center
12. Patridge Student Center & Minton Cafeteria
13. Colonel Harland Sanders Baseball Field
14. Religious Life Center
15. Physical Education Building, Gym, and Swimming Pool
16. College Courts, Married Students' Apts.
17. College Courts, Faculty and Staff Apts.
18. Lakeside Hall, Dormitory
19. Lakeside Social Sciences Center
20. College Park Drive, Faculty & Staff Residences
21. Mahlon Miller Science Center
22. Burch-Nau Football Field
23. Football Offices/Weight Training Facility
24. Maintenance Building & Shops
25. College and Community Recreation Park
26. Jack C. & Juanita Phillips Athletic Complex

UNION

UNION COLLEGE

BARBOURVILLE, KENTUCKY

"Committed to Excellence"

CATALOG 1994-95

UNION COLLEGE CATALOG

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TELEPHONE COMMUNICATION

A campuswide network of telephones enables the caller to reach any administrative or staff office by dialing the central switchboard. After 11 p.m., emergency calls for students may be directed to their dormitory counselors.

Central Switchboard ..... (606) 546-4151
Admissions Office 1-800-489-8646
Counselor, Pfeiffer Hall ..... (606) 546-3421
Counselor, Stevenson Hall ..... (606) 546-3659
FAX number ..... (606) 546-1217

DR. AND MRS. JACK C. PHILLIPS

PRESIDENT'S MESSAGE

We at Union College look forward to serving you. The College provides numerous activities in the classroom and outside the classroom which are designed to help you to reach your educational goals.

The quality of your educational experiences at Union College requires excellence on the part of the College and a willingness on your part to fully participate in the programs and activities provided. We invite you to sample, to explore, and to become immersed in the experiences we provide.

Our faculty, with over 60 percent having the earned doctorate, gives personal and individual attention to students. Sound scholarship coupled with individual attention create the environment which we believe is important and conducive to learning.

We also believe that our country requires a stronger Christian and/or value-related society. One of the best ways to achieve this is through church-related higher education. Our goal at Union College is to help open young minds to reach truth and value thereby providing you with the means to make a difference in our society. Morality and ethics cannot be legislated but they can be learned.

The Union tradition and pride is reflected in more than 8,000 graduates who have participated in the opportunities provided by the College since its founding in 1879. In the words of Dr. Phillip A. Sharp, class of 1966, and the 1993 Nobel Laureate in Medicine, Union College succeeds in teaching students how to learn that the primary ingredient to a successful career and life is the ability and willingness to learn and that the ability to teach is important to interacting with others.

We are committed to building on our rich tradition of service by providing you with stronger opportunities in the future. It is our dream that when you graduate from Union College that you will be able to say I am who I am because I have become immersed in the opportunities Union College has provided and that these opportunities have made a difference in my life.

Sincerely yours,

Jack C. Phillips

Jack C. Phillips
President

A History of Service

Union College was founded in 1879 by a group of progressive citizens of Barbourville who formed a stock company and secured the main part of the present campus. In 1880, the first building was formally opened on the site of what is now known as Centennial Hall.

The College was purchased by the Kentucky Conference of the Methodist Episcopal Church in 1886, and Daniel Stevenson was made president of the reorganized institution. A major bequest from Mrs. Fanny Speed led to the construction of Speed Hall, Stevenson Hall, and the Classroom Building (now known as Centennial Hall).

The college department was discontinued in 1908, and for eight years the institution was maintained as a Junior College, an academy, and an elementary school. It became a *bona fide* college again in the presidency of Ezra T. Franklin, who inaugurated a program of development during which the Memorial Gymnasium and a home for the president were built. In 1927, the College was accredited by the University of Kentucky as a four-year college of A grade.

President John O. Gross emphasized the improvement of the curriculum and the building of a strong faculty. In 1931, Union was accredited by the University Senate of the Methodist Episcopal Church, and in 1932, full accreditation was realized when it was made a member of the Southern Association of Colleges and Schools. The Board of Regents of the University of the State of New York placed Union College on its accredited list in 1937.

In Conway Boatman's twenty-one years of leadership, the College achieved marked progress in both its educational programs and in plant improvement. Seven new buildings were completed and others were enlarged. The curriculum was expanded, endowment funds were increased, and a markedly improved program of faculty salaries and benefits was adopted.

Mahlon A. Miller was elected to the presidency in 1959. In 1960, a Master of Arts in Education degree program was introduced, and plant expansion continued with the development of College Park, a faculty residential area, followed by the construction of additional student housing, a physical education building, a student center, and a science center, completed in 1973.

President Jack Carter Phillips began his duties at Union College in January, 1983.

Dr. Phillips earned the Bachelor's Degree at Birmingham-Southern College and the Master of Divinity Degree at Vanderbilt University. He received an honorary Doctor of Laws Degree from Union College in 1981. He was lauded at that ceremony for "notable achievement in the field of institutional fund raising and, in particular, service to the colleges and universities related to the United Methodist Church."

A native of Scottsboro, Alabama, Dr. Phillips served in the U.S. Marine Corp from 1954 to 1957.

This past year found the College involved in a $3 million building program. The following projects have been completed: a $2.1 million cafeteria/Student Center; renovation of the Soldiers and Sailors Memorial Intramural Center; creating of soccer, baseball, women's softball, and men's football fields; the building of a new organ for the Chapel; and the placing of telescopic seating in the gymnasium. There is now a commitment to build a $10 million endowment, $5 million for student aid and $5 million for faculty enrichment.

Under Dr. Phillips' leadership the College has experienced significant enrollment increases every year. A new 37,000 square foot library addition with computer facilities and a modern well equipped learning resource center opened in 1987.

The College has always accepted a special mission to Appalachia, a commitment which is now being strengthened with unique academic programs based on regional characteristics, expanded student financial aid, student community-service projects, and new career-oriented curricula.

The doors of Union College are open to all who aspire to a more fulfilling life, without regard to race, color, sex, disability, national or ethnic origin.

Interested and prospective students are encouraged to arrange a visit to the campus by calling the Admissions Office 1-800-489-8646.

STATEMENT OF PURPOSE (Mission Statement)

Union College is an independent liberal arts institution of higher education, affiliated with the United Methodist Church. It is dedicated to maintaining an academic environment that stimulates intellectual curiosity and scholastic competence, encourages Christian values, and underscores the worth and responsibilities of education and the individual. The College admits students without regard to race, color, creed, age, sex, or disability.

Union College commits itself to providing students with a sound education. The faculty embodies scholarship and dedication to student needs and achievements. Small classes allow attention to the individual. Faculty advisors assist each student in developing career goals and a plan of study appropriate to these goals. Students have access to many scholarly and technical resources, to personal, career, and academic counseling, and to a faculty representing a variety of models of intellectual accomplishment.

The College has designed its academic program to provide its students with the opportunity to broaden their knowledge of their own and other cultures, and to obtain the intellectual skills necessary for a career. The undergraduate Liberal Education Core, including the fields of humanities, natural sciences, and social sciences, promotes breadth of learning and serves as the foundation for the pursuit of individual majors. Plans of study in pre-professional and technical fields prepare students headed for post-graduate study or for immediate employment. A strong developmental program attends to gaps in academic preparation. Union offers graduate programs in education for the further preparation of both teachers and administrators. As a vital part of its service to the surrounding area, outreach includes a community education program, linkages with area school districts, selected courses offered at regional locations, and provision of several associate degrees. In its commitment to the United Methodist Church, Union College provides pre-ministerial training and support services to local churches.

Although Central Appalachia is Union's primary service area, the College intentionally recruits students from numerous states and foreign countries who enrich and diversify the College community. In order to inform people about Appalachian life, traditions, and problems, the College offers Appalachian studies for its own students and those from other institutions of higher education.

As a cultural center, as a resource for its area, and as a rigorous academic environment, Union College pursues its mission to serve both students and community.

GOALS FOR GENERAL EDUCATION

A. COMMUNICATIONS SKILLS

A primary goal of Union College's academic program is to help students develop and improve their communications skills. This includes both *expression* (the ability to convey information and ideas to others) and *comprehension* (the ability to receive and understand information and ideas conveyed by others). An acceptable level of *expression* includes the ability to write and speak in a clear and cogent fashion, while *comprehension* requires the ability to read college level material, listen to lectures and retain and understand the content of the material presented. Therefore, a Union student should, by graduation, be able to:

1. write a clear and cogent essay based on his or her own ideas which obeys the basic rules of grammar, spelling, and punctuation;
2. prepare and deliver a logical and organized oral presentation;
3. read and integrate information into previously acquired knowledge; and
4. listen to a lecture or presentation and recall and understand the major points.

B. ETHICS AND VALUES

As an institution related to the United Methodist Church and one fostering Christian values, Union College does attempt to develop ethical standards as an important part of any student's education. Students should learn to think about and discuss values and ethics and become aware of the major religious and ethical perspectives of humankind. The College encourages an awareness of the Christian faith and believes that students should develop a tolerance toward the viewpoints of others. Upon graduation, the Union student should be:

1. familiar with today's major religious and ethical ideals, and how they developed;
2. tolerant toward and respectful of these different views and ideals; and
3. able to think about and articulate problems and issues related to ethics and values.

C. GENERAL KNOWLEDGE

No education is complete without the acquisition of a solid base of general knowledge. Without such knowledge, the student will not be capable of developing his or her thinking and reasoning abilities. With this knowledge, students will have a storehouse of information that will help them more effectively to exchange ideas, thoughts, and feelings with others. The constant expansion of and change in the corpus of information means that it would be futile to attempt to define precisely on a long-term basis what a student should know. Nevertheless, there are certain areas with which the student should be familiar, at least in general terms. By graduation, the Union student should have:

1. an ongoing interest in and appreciation for music, literature, and the arts, and the traditions on which these fields are founded;
2. an informed acquaintance with the natural and social sciences and technology, and a general awareness of their continuing impact and development through the ages; and
3. acquired reasonable mathematical and quantitative skills.

D. CRITICAL THINKING AND PROBLEM SOLVING

The ability to think critically and to analyze and solve problems is an absolutely essential skill. In an increasingly complex world characterized by a constantly expanding flow of information, it becomes more and more necessary for educated persons in every field to be able to arrive at responsible and considered decisions. A college graduate who lacks these abilities is unlikely to succeed in any area of endeavor. Thinking and analysis develop over many years and cannot become fully developed during an undergraduate career. Union desires that its students make progress in this direction, however, by developing or improving upon their ability to:

1. understand abstract ideas;
2. analyze problems that involve complex sets of facts and relationships; and
3. think and reason in a critical, logical, and objective fashion.

E. CONTEXT

Understanding the modern world depends upon an adequate comprehension of the forces that continue to shape societies. There are many different interpretations of and explanations for the current world situation, and students are free—and encouraged—to develop their own opinions. During the college years, students have the opportunity to learn about the context of modern civilization—its antecedents and structure. By the completion of their undergraduate program, students should have:

1. increased their understanding of how the modern world works, including its peoples' increasing interdependence;
2. acquired a basic knowledge and appreciation of other cultures; and
3. developed an interest in, and comprehension of, current events and their history.

F. LEARNING SKILLS AND PERSONAL DEVELOPMENT

The development of learning skills and personal development are important goals of all programs at Union College. In addition, courses are offered which are specifically designed to develop learning skills where these are lacking, assisting students to "learn how to learn". Students are also expected to become familiar with ways in which the library supports and complements a liberal arts education and how libraries can serve them throughout their lives. All students are offered the opportunity to use computers to assist their educational experience and to learn how the computer can be useful to them personally.

Commitment to the goal of personal development is evidenced at Union College by the requirement that all students extensively experience the liberal arts. Of special importance is Union's mission to serve the Appalachian people by making a liberal arts education available to the community. Students graduating from such a program will have developed a degree of confidence in their ability and will be prepared to go on in life with the expectation of success in a chosen endeavor. Appalachian students will also develop an increased appreciation of their own culture, place, and importance in the world.

A STATEMENT OF VALUES

Union College is dedicated to preparing students for living informed, socially useful, personally fulfilling, and spiritually vital lives. This commitment involves using knowledge within a context of Christian values. Although it is recognized that as an educational institution Union College has an obligation to help students understand other value systems and their effects when translated into specific areas of human activity, as a United Methodist Church-related college Union affirms an institutional stance based on Christian values such as have evolved in the Judeo-Christian tradition and are contained in the Old and New Testaments. Our intent is both to confess and to practice the christian faith in all our endeavors.

IMPLICIT IN THIS STATEMENT OF VALUES IS THE REQUIREMENT THAT UNION COLLEGE COMMIT ITSELF TO THE VALUES ENUNCIATED BY ASSURING TO THE MAXIMUM EXTENT POSSIBLE:

To Its Students

(1) the fullest of opportunities to receive a quality liberal arts education.

(2) strong attention to, and genuine concern for, each individual in the college community, including emphasis upon the unique value of each person.

(3) a continuing concern that they learn to appreciate and accept life styles that reflect integrity, honesty, compassion, and social responsibility.

(4) a commitment to provide the experiences necessary to acquire a meaningful understanding of and dedication to Christian love and service to both God and neighbor.

To Its Faculty and Staff

(1) a campus atmosphere of responsible academic freedom dedicated to the constant search for truth.

(2) an academic community dedicated to openness and acceptance of its pluralistic composition, including personnel policies and practices that are recognized without regard to race, creed, sex, color, physical handicap, or national origin.

(3) a constant reminder of the power of Christian example.

To Its Alumni, Benefactors, and the Parents of Its Students

(1) faithful and responsible stewardship of all funds and gifts entrusted to the College.

(2) continuance of meaningful traditions, particularly those unique to a church-related institution, while at the same time encouraging the exploration and implementation of new value-centered activities especially of the type that have strong Christian relationship.

(3) continuing appreciation for the rich heritage of Union College as an independent, non-sectarian, church-related institution in the Christian tradition.

To The United Methodist Church

(1) acceptance of Jesus Christ as God's revelation of Himself, and of the Holy Spirit as God's continuing presence in life.

(2) acceptance of the moral standards which have evolved in the Judeo-Christian tradition as our ideals for living, working and witnessing in an academic community and as the standards for our teachings and personal example.

(3) sensitivity to and a conscientious effort directed toward the satisfaction of the spiritual needs and concerns of the college's students, faculty, and staff.

(4) meaningful responsiveness to and support for the United Methodist Church.

To Barbourville, Knox County, and the Appalachian Area

(1) continuing appreciation that Union College is an integral, social, educational, and spiritual part of the Barbourville and Knox County communities, and of Appalachia.

(2) dedication of the college's resources in teaching, research, and service to the enrichment of the communities of which Union College is a vital part.

(3) a commitment of the personal resources represented by the college's students, staff and faculty to local churches of the immediate and larger community.

ADMISSIONS AND GENERAL INFORMATION

ADMISSION REQUIREMENTS

The criteria for admission are used to identify those who are most likely to complete a college program of studies. The Admissions Office evaluates each applicant on an individual basis and acceptance decisions are determined on the quality of academic achievement, high school grade point average, class rank, and the scores of the ACT (American College Testing Program) or SAT (Scholastic Assessment Test of the College Board).

Applicants are required to submit an official transcript from an accredited secondary school, or a high school equivalency certificate based on the GED tests. The secondary school transcript should include four years of English, three years of mathematics, two years of social studies, and two years of science. The study of a foreign language is recommended.

Union College requires that an official transcript from each college or university attended be forwarded to the Admissions Office before an admission decision is made.

The College processes applications on a rolling admissions basis. An application is considered complete when all academic credentials including the secondary school and/or college transcript(s), and results of the ACT or SAT have been received.

Procedures For Admission

Application for Admission

The application for admission is available from the Admissions Office, Union College, Barbourville, KY 40906. A processing fee of $20.00 is required before an application will be considered for admission.

Enrollment Deposit

After official notification of acceptance to the Fall semester, all new students are required to submit a $50.00 enrollment deposit which is applied toward tuition. This deposit is refundable until August 1. If you are applying for financial aid your deadline is extended until you have been notified of your award. At the time of acceptance of your financial aid award you have two weeks to submit your enrollment deposit.

Secondary School Transcript

Applicants must authorize the release of their (high school) transcript by signing the application form. The Admissions Office will write to the applicant's high school for an official copy of the transcript.

Entrance Tests

All candidates are required to take the American College Test (ACT) or the Scholastic Assessment Test (SAT). Applicants should have the results forwarded to Union College. The Union College code number is 1552 for the ACT and 1825 for the SAT.

A test application blank and bulletin of information may be obtained from the secondary school guidance office or from Union's Admissions Office.

Summer Orientation

A one-day Summer Orientation program is required for all students who are entering Union College for the first time.

The program includes academic advising, registration, and financial aid counseling and is designed to help students make a successful transition to the College.

Admissions Information for Other Programs

High School Junior Program

A student who has completed the junior year of high school may qualify for the High School Junior Program. The student must have a "B" average and must take the ACT test given in February and/or April to be admitted to the program. The student may then enroll for 6 hours or less in any one term for one-half the established summer tuition rate. This scholarship terminates when the student graduates from high school.

GED Acceptance

An applicant may be admitted on a high school equivalency certificate based on the General Education Development Tests, provided that the scores earned are equal to or above the minimum recommended for college entrance by the American Council on Education.

Advanced Placement

Students who have successfully passed one or more of the Advanced Placement tests of the College Entrance Examination Board may ask for advanced placement and credit when they submit their application. The Office of the Registrar will decide on the credit to be granted and the college course that may be considered for equivalency. A score of 3 or higher is required for such action.

Early Start Senior Summer Program

A high-school graduate who has not attended college since graduation may be eligible for the Early Start Senior Summer Program. To qualify a student must meet admission standards required of all students, must graduate in the upper 50% of the class, and must have a minimum ACT English score of 20 or SAT Verbal of 420.

Accepted students who enroll for courses in either summer session will be provided a scholarship for one-half of the tuition charges. If the student enrolls for and completes twelve hours during the summer sessions, there will be no room charge to live on campus. All students must pay a $50.00 refundable room deposit.

Students who enroll in and complete twelve hours of college credit with a grade point average of 3.0 ("B" average) will receive a $250 scholarship as a full time student in the fall. If the 3.0 average is maintained in the fall, the student will receive another $250 scholarship in the spring. After the spring semester, the scholarship terminates.

Admission to Appalachian Semester

Sophomores, juniors, and seniors from colleges and universities as well as Union College students may apply for the Appalachian Semester Program. The priority deadline for applications is June 1 for the following fall semester; however, applications are received and reviewed until the available spaces have been filled. Early application is recommended for this program.

The application process includes a brief essay describing the student's interest and experience with the Appalachian Region; a nonrefundable application fee; and an official transcript from the college or university attended. The following criteria are used to evaluate candidates: caliber and diversity of the courses attempted; performance in those courses; cumulative grade point average; quality and content of the essay. Recommendations from an academic advisor are welcome.

Admission of Adult Students

Students 25 or older are not required to furnish ACT or SAT scores. Applicants who lack the high school diploma or GED are urged to contact Union's Adult Education office for assistance.

Admission of International Students

International students must complete the regular admission process. ACT or SAT is not required for admission but is required if a student is claiming scholarship eligibility. A nonrefundable application fee of $20 should accompany each application for admission to the College. After the student's credentials have been received and the student is accepted, an I-20 will be issued. The College must receive payment for the student's first semester costs for tuition, room and board, and fees before registration can take place and the student is allowed to move into the dormitory.

In order to be considered for admission, an international student must show English proficiency with a minimum score of 550 on the Test of English as a Foreign Language (TOEFL), or have completed level 109 from any English Language Services (ELS) center or have a score of 80 or above on the Michigan Placement Test.

When the admission process is completed, an international student is obligated to stay at Union for at least one year. No official transcript or recommendation will be released until the student fulfills the year's obligation. If a student leaves before one year, he/she will be reported to Immigration and Naturalization Services as being out of status. One year is interpreted as two full semesters, excluding summer sessions.

The student must pursue a full course of study. Those who drop to part-time status must by law be reported to the Immigration and Naturalization Service. No visas and/or passports will be renewed until the student's account is paid in full.

Transfer Policy

The transfer applicant is required to submit:

1. An application for admission.
2. An **official**, sealed transcript from each college/university previously attended.

3. An official high school transcript and ACT or SAT scores are required of all students transferring fewer than thirty-one semester hours.

A transfer student applying to Union College must be in good standing with the previous college and be eligible to return to that school.

Union College will record a summary of transfer credits, indicating the total number of hours accepted and the quality point average at the sending institution. Union accepts only transfer work in courses with a grade of "C" or above. This policy applies only to credits transferred on a course-by-course basis, not to junior college students who transfer entire degree programs.

Sixty-seven semester hours is the maximum number of hours that will be accepted from a two-year institution. Transfer students must satisfactorily complete thirty-two semester hours at Union College. For an associate degree, a transfer student must satisfactorily complete eighteen semester hours at Union College.

Transfer credits will be accepted at the level of the initiating institution. Therefore, a student transferring from a two-year institution must accumulate thirty semester hours of upper division credit while a student at Union College before they are eligible for graduation. Of that work, at least six upper division hours must be included in any minor; twelve upper division hours must be included in any thirty hour major; and at least eighteen semester hours of upper division course work must be included in any fifty-four hour major or in an area of concentration.

FINANCIAL AID & FEES

TUITION AND FEES

College Expenses

The academic year is divided into two regular semesters, Fall and Spring. In addition, a special May Interim and two special summer sessions are offered, convening in the months of May, June and July respectively. Applicable tuition and fees are as follows.

Undergraduate Expenses (per regular semester)

Tuition (12 to 17 semester hours) and Activity Fee $3,900.00
Room and Board* (19-meal week) $1,475.00
Private Room (Additional) ..... $ 165.00
Total for Boarding Student
— Double Room $5,375.00
— Private Room $5,540.00
Part-time tuition for registering less than 12 or more than 17 semester hours, per semester hour ..... $ 170.00
(Undergraduate students over age of 50 pay 50% of the established tuition rate.)

Graduate Expenses

Full-time tuition (12 to 17 semester hours) $3,900.00
Part-time tuition (per semester hour) ..... $ 170.00

Summer Session Expenses 1994

Tuition, Undergraduate (per semester hour) ..... $ 170.00
Tuition, Graduate (per semester hour) ..... $ 170.00
Room and Board (19 meals per week) each term, 5 weeks** ..... $ 470.00
Room and Board (Sunday dinner through Friday lunch — 15 meals per week) each term** ..... $ 385.00
Private Room, each term (additional) ..... $ 50.00

May Interim Term Expenses 1995

Tuition, Undergraduate (per semester hour) ..... $ 170.00
Tuition, Graduate (per semester hour) ..... $ 170.00
Room and Board (19 meals per week) ..... $ 280.00

Other Expenses

The fees listed below are not a part of the traditional tuition and board and room charges.

Audit Fee (per semester hour) $15.00
Late registration fee*** $15.00
CLEP (per test) $35.00
CLEP Credit Recording fee (per course equivalent for Subject Tests only) $30.00
Portfolio Fee (per semester hour) $30.00
Contract Course (per semester hour) $25.00
Examinations:
late final examination fee $15.00
credit by examination (Institutional) (per credit hour) $25.00
Graduation Fees:
Degree or Certificate $20.00
Academic Regalia $25.00
Absentia $50.00
Renewal Fee $5.00
Music Lessons:
Part-time and Special Students (per semester hour) $80.00
Applied Music (per semester hour) $65.00
Private Lesson (Continuing Education) (per semester hour) ..... Varies
Transcript-after first copy $3.00
Student Teaching Fee $100.00
Appalachian Semester Fee $100.00
Special Lab or Studio Course $25.00
College Court Rental, per month (all utilities furnished) $180.00

*Vacation periods are not included in the above quotations. Dormitories and food service are closed during vacations and other periods as noted in the undergraduate calendar. The College reserves the right to entertain delegates to conventions and other related groups in the residence halls during vacation periods. Students will be notified in advance of such contemplated occasions and assurance given regarding the safeguarding of their personal property during such occupancy.
**All board charges are subject to change without notice, pending contract agreement with the food service.
***Late registration fee can be waived by the Registrar for sufficient reason if permission is requested in advance.
Expenses for May and Summer Sessions are effective June 1, 1994.
Tuition, fees and other expenses are subject to change. All changes will be announced in the class schedule or through the media.

PAYMENT POLICY

I. Financial Clearance

A student will be cleared for registration only if any previous balance has been paid. The new semester's account must then be paid in full, or a signed payment plan first installment completed. May and summer sessions must be paid in full at the date of registration — no payment plan is permitted for May or summer sessions.

Authorized financial aid will be credited to the student's account and a payment plan set up for the balance. In case the financial aid is anticipated but not yet authorized, the student must pay as a first installment one third of the total costs.

II. Finance Charge

A monthly finance charge of one and a half percent (18% APR) will be added to the unpaid balance on student accounts at noon on the last working day of each month.

III. Payment Plan

If the new semester's account cannot be paid before registration, a payment plan can be completed and a first installment paid down. The payment plan requires one-third payment on each of the following dates.

1. On or before fall semester or spring semester registration — one-third.

2. Due September 21 (fall semester) or January 21 (spring semester) — one-third.

3. Due October 21 (fall semester) or February 21 (spring semester).

These dates will allow students who participate in the payment plan to avoid all finance charges, if payments are paid on time. Finance charges will go on all Fall balances beginning the last working day of October, and all Spring balances beginning the last working day of February.

IV. Unpaid Accounts

Any student who owes a balance on his or her account after November 15th (fall) or March 15th (spring) may be subject to withdrawal procedures.

A student having any unpaid balance will not be cleared for the release of an official report of grades, a transcript of credits, or a diploma.

Should collection efforts become necessary to collect an unpaid balance, the student will be responsible for all costs of collection including collection agency and attorney fees.

REFUND INFORMATION

Since faculty contracts and other commitments are made by the College for the entire year in advance, the following refund schedule has been established in order that the College and the student may share the loss equitably when it is necessary for a student to withdraw or make a change in his or her program.

1. A student is considered to be enrolled until he or she completes drop/withdrawal procedures. Necessary forms must be obtained from the Office of the Registrar. All refunds will be based on the date these drop/withdrawal forms are completed and returned to the Office of the Registrar.

2. A full refund may be obtained for a class only if a student has not attended beyond the first session and completes drop/withdrawal procedures with the Office of the Registrar.

3. Any portion of board charges unused up to date of withdrawal will be refunded, except that a full week's board will be charged for any fraction of a week.

4. Tuition and room charges will be refunded on the following basis:

   Regular Semester — Twenty percent of the total for tuition and room will be charged the first week, 40% the second week, 60% the third week, 80% the fourth week. No refund will be given after the fourth week. Any part of a week will be treated as a full week. Refund is based on the tuition charges less $1 class dues, $1

Student Government Association fee, $3 for I.D. card, and $35 activity fee.

May Interim and Summer Sessions — Withdrawal up to the end of the first week will permit a 50 percent refund. No refund will be made after the end of the first week. Any part of a week will be treated as a full week.

5. **Refund of Overpayment on Student Account** — If a student makes an overpayment on his or her account, a written request for refund must be submitted to the Business Office within one year after the end of the last academic term for which the student was enrolled.

6. **Room Reservation Deposit** — This deposit will be refunded if the request is made in writing not later than August 1 for the fall semester or 30 days before the opening of any other semester for which the contract is first effective. Students, once enrolled, must submit a written request to the Vice President for Student Life and Dean of Students at least 30 days before the end of the term, for cancellation of the contract. This deposit will be refunded within 60 days upon receipt of written authorization by the Vice President for Student Life and Dean of Students indicating that the depositor is no longer enrolled as a student at Union College and that he or she has left the housing facility undamaged and does not owe other bills. The request for this authorization must be made within one year after the end of the academic term for which the student was enrolled.

7. **Enrollment Deposit** — $25.00 will be refunded upon receipt of written request prior to August 1 for the fall semester or 30 days before the first day of class for any other academic session. Refund requests should be submitted to the Admissions Office.

FINANCIAL ASSISTANCE

Student expenses. In planning to attend Union College a student should expect the following typical expenses for an academic year; tuition and general fees $7,800, room and board $2,950, books and supplies $550. In addition, allowance should be added to these figures for personal expenses, medical insurance, transportation, and extra charges for special courses (such as laboratory fees, etc.). The Office of Student Financial Aid will consider the total costs for attendance, including the items listed above, when making a financial aid commitment.

Purpose of financial aid program. In addition to its own scholarship funds, Union College participates in all federal programs including the Pell Grant program. Residents of Kentucky are also eligible to receive state tuition grants and loans. Information on Union College scholarships will be found on the following pages.

Students applying for financial aid are considered for all programs for which they are eligible. The amount of financial aid awarded is generally a combination of grant, loan, and employment, and is based on the financial need of the student. Need is determined by subtracting the resources of the student and the contribution of his or her parents from the total student expenses. The parents' contribution is estimated on the basis of the amount of their income and assets as well as a consideration of taxes, medical expenses, and other liabilities of the family. An independent, objective, nationally recognized method of analysis developed by the College Scholarship Service is used to evaluate the family's financial circumstances. All financial aid awards to students are determined by Union College's Office of Student Financial Aid.

Procedures for applying for financial aid. Students must apply for financial aid by submitting both the Free Application for Federal Student Aid (FAFSA) and the Financial Aid Form (FAF) to the College Scholarship Service. Students applying by March 15 will have a greater opportunity. However, financial aid will still be available after this date. The FAFSA and the FAF are used to apply for the Federal Pell Grant, the Kentucky Tuition Grant, the Federal Supplemental Educational Opportunity Grant (SEOG), Federal Work-Study, Federal Perkins Loan (formerly National Direct Student Loan) and any institutional funds. The FAFSA and the FAF may be obtained from a high-school guidance office or the Office of Student Financial Aid. Students should specify

1825 as the code number for Union College in the appropriate section of the FAF.

A Financial Aid Notification along with information about any aid offered will be sent from Union College to each student who applies.

Procedures for reapplying for financial aid. A student must reapply for financial aid each academic year. However, aid usually continues at the same level each year unless a student's resources or the expected contribution of their parents change. All enrolled students receiving aid automatically receive information about applying for renewal awards. Other enrolled students should request applications by February 15.

Students who fail to maintain a satisfactory level of achievement may not receive the following types of financial aid: Federal Pell Grants, Federal Supplemental Education Opportunity Grants (FSEOG), KHEAA State Grants, Union College Scholarships and Grants, Federal Work Study, Federal Perkins Loans, Federal Stafford Loans, Federal PLUS/SLS Loans, other aid involving federal or state sources and funds associated with Union College. A student whose academic performance falls below acceptable guidelines of the College may be placed on academic probation. A student can keep financial aid during the first semester on probation, however, if they continue on academic probation for a second consecutive semester, or fail to complete 50% of the credit hours enrolled they will not retain financial aid. Students are eligible to receive financial aid for a maximum of ten semesters.

A student will receive written notification if financial aid is to be withdrawn. Students who have financial aid withdrawn may appeal to the Admissions and Academic Standing Committee by submitting a letter stating why satisfactory progress was not maintained and any other reasons why aid should not be withdrawn.

Grants

Federal Pell Grant — A program providing direct grants from the federal government. The student receives an eligibility report (as a result of his or her Financial Aid Form application) which can be submitted to Union College for payment. It is expected that the maximum amount for the Pell Grant for 1994-95 will be $2,300.

Federal Supplemental Educational Opportunity Grant (FSEOG) — A program designed by the federal government to assist undergraduate students with exceptional financial need (with priority given to Pell Grant recipients). The grant is permitted to range up to $4,000 per year depending on need and availability of funds.

Kentucky Tuition Grants combined with the CAP Grant — provides grants to students who are residents of the Commonwealth of Kentucky and who demonstrate a need through the analysis of the Financial Aid Form application. The maximum award for 1994-95 will be $2,160.

Employment

Federal Work-Study Program — If a student still requires financial support to meet college costs after the federal and state grants are awarded, the student may be given the opportunity to earn an amount on an hourly basis in a campus department. This employment program is campus-based support from the federal government. Either undergraduate or graduate students can qualify if the Financial Aid Form results indicate a need.

Work-Grant — If a student cannot qualify for employment on the basis of financial need and the College needs the special skills of the student, the student can work for an amount of tuition waiver.

Coop Program with Tremco, Inc. — is available to a qualified sophomore, junior, or senior majoring in chemistry.

Loans

Federal Perkins Loan (formerly National Direct Student Loan) — Federal loan funds are made available to students who have financial need and who maintain satisfactory progress towards graduation. Repayment at a 5% interest rate begins nine months after graduation or withdrawal from school.

Federal Stafford Loan (formerly Guaranteed Student Loan) — This loan program exists in Kentucky and other states as a way to borrow from private commercial lenders to finance college education on the undergraduate and

graduate levels. Repayment at 8% interest begins 6 months after graduation or withdrawal for borrowers with loans disbursed prior to October 1, 1992. For first time borrowers with Stafford Loans disbursed after October 1, 1992, the interest rate will be variable, but not higher than 9 percent. Minimum payments are $50.00 a month. Eligibility depends upon at least half-time enrollment status, making satisfactory academic progress, and a reporting of family income by filing the FAFSA and FAF.

United Methodist Student Loan Fund — Students who are members of the United Methodist Church and maintain a "C" average may apply through Union College for a loan at 6% interest from the Board of Education of the United Methodist Church.

Charles M. and Mary D. Grant Loan Fund — The Charles M. and Mary D. Grant Foundation has provided an endowed loan fund for Appalachian students who demonstrate a real need and who are in good standing at the College.

Hensley Emergency Loan Fund — Mr. and Mrs. Burton F. Hensley of St. Cloud, Florida, have established a loan fund for single students at Union College who have emergency situations requiring small short-term loans.

The Russell and Alice M. Hicks Student Loan Fund — The late Russell and Alice Hicks of New Albany, Indiana, have established an endowed student loan fund at Union College through an estate gift. The net income of the fund will be used to provide low interest loans to students for paying tuition, room, board, and other necessary expenses. All loan recipients must be of good moral character. Students applying for a loan must be Kentucky residents, with preference given to residents of Clay, Harlan, Jackson, Knott, Knox, Laurel, Leslie, Rockcastle, and Whitley Counties.

The Rev. and Mrs. Erwin King Loan Fund — The Rev. and Mrs. Erwin King have established a loan fund to aid worthy ministerial students in the junior or senior year at Union College.

Guy H. Williams Loan Fund — Dr. Guy H. Williams of Cleveland, Ohio, has established a loan fund in memory of his wife, Anna Williams. The fund is available to worthy students who have spent two years at Union College and have a "C" average or better.

The Beverly P. and Mossie B. Wilson Loan Fund — This loan fund has been established by Dr. and Mrs. O. J. Wilson of Louisville, Kentucky, in memory of Dr. Wilson's mother and father. The loans shall be given to students majoring in English and repayment shall be in accordance with the guidelines of the College's loan fund. The income from this fund shall come from the Beverly P. and Mossie B. Wilson Trust Fund.

The Charles Henry and Glennora Rominger Krieger Student Loan Fund — This loan fund, established by the late Glennora R. Krieger of Ft. Thomas, Kentucky, provides loans to worthy and needy students from the Appalachian counties of Eastern Kentucky. The terms of the loan are the same as those of the United Methodist Student Loan Fund.

Other Loan Funds — Student loans are available from a number of funds not specifically designated for Union College students, but for which Union College students are eligible. Specific information may be obtained from the Office of Financial Aid.

Institutional Grants/Scholarships

United Methodist Church Grants-in-Aid — Union College will provide grants of $1,000 for full-time United Methodist students and will request the student's home church to consider matching the grant. If the student plans to go into the Methodist ministry or if the student is a dependent of a Methodist minister, then a $1,000 grant will be provided by the College. We encourage recipients to request matching funds from their local church.

The grants are for one year, renewable, and may be applied to any Union College charges (tuition, fees, room and board on campus). A student is eligible for only one of the above grants.

College Employee Scholarships — Full-time employees of Union College are eligible for tuition remission scholarships. Full-time employees hired after January 1, 1975, will not be eligible for tuition scholarships for spouse or children until they have been employed for six months unless they are under annual contract. The spouse and unmarried children of full-time employees hired after June 1, 1982 may receive a Union College Employee Dependent Scholarship equal to 50% of the tuition and charges, with no charges for auditing a course.

Other fees are charged in full. Employee Dependent Scholarships will not be granted to children for graduate work. Application for a scholarship must be made through the Financial Aid Office prior to the registration date each term. The FAFSA and the FAF must be filed to determine eligibility for federal and state aid before an Employee Dependent Scholarship will be awarded. A tuition grant at other colleges participating in the Tuition Exchange Program is also available to employees' unmarried dependent children.

Alumni Grants — Dependent children of Union graduates will receive a grant equal to 10% of their Union College charges. Resident students' grant will be based on tuition, room and board charges, commuting students' grant will be based on tuition only. Students must meet all admission requirements and must attend full time.

Assistantships

Senior Assistantships are available annually. Students must: be enrolled full time, have completed ninety-six hours with a 3.0 minimum grade point average overall and in their major. The duties of the Senior Assistants include occasional classroom lectures, research, remedial work with beginning students, assisting in laboratories, etc. The assistantships are not intended to cover clerical duties. The assistants are expected to spend up to eight hours per week on the work assigned with the awards ranging up to $1,000 per year. The awards are made by the Admissions and Academic Standing Committee. Candidates are to be recommended by the division chairperson by April 1.

Scholarships

Academic Scholarships for new, full-time freshmen are based upon academic achievement and the results of the ACT/SAT. A range of scholarships are available with the most prestigious award, the Union Scholar Award, being worth up to full tuition each year. These scholarships are renewable based upon a minimum grade point average for each scholarship category.

Valedictorians and Salutatorians are awarded $2,000 and $1,500 respectively and must achieve a score of 24 and 23 on the ACT or 1000 and 970 on the SAT. An official high school transcript with class rank and certified by the high school attended must be submitted. These scholarships are renewable each year by maintaining a 3.2 cumulative grade point average, or at two-thirds of the original amount for a 3.0 minimum average.

All institutional grants and scholarships are based on the availability of funds with priority being given to those individuals who apply before May 1 of each year.

A student receiving a Valedictorian or Salutatorian award will not be eligible for other academic scholarships.

Junior College Scholarships — for new, full-time students are available to graduates of junior colleges who have earned the A.S. degree with a grade point average (GPA) of at least 2.75 on a 4.0 scale. A range of scholarships from $1,000 to $2,000 are awarded based upon the cumulative GPA. These scholarships are renewable in the senior year if the student maintains the minimum grade point average for the award category.

Alumni Scholarships — The Alumni Association of Union College awards up to three scholarships of $1,000 annually. These scholarships are given on the basis of character, need, and evidence of future usefulness. They are open to all full-time undergraduate students who have completed one full year at Union and who have a minimum cumulative GPA of 2.8. Applications are available from the Office of Alumni Relations.

Dr. and Mrs. Edward S. Amis Endowed Scholarships — Dr. and Mrs. Edward S. Amis of Fayetteville, Arkansas, have endowed a scholarship fund at Union College. Dr. Amis received the Distinguished Alumni Award in 1985. The two $500 grants will be given annually to two full-time Christian-service students who excel in local church programs.

The Ashland First United Methodist Church Scholarship — The members of the First United Methodist Church of Ashland, Kentucky have endowed a scholarship for a "worthy student", preferably a member of this church. If no member-students are eligible, the scholarship may be awarded to any United Methodist student from Kentucky.

The George L. Bagby Scholarship/Loan Fund — The late Mr. George L. Bagby of Woodford County, Kentucky, established a student financial aid endowment totaling $405,000

including accumulated interest, and this supports both scholarships and loans for Kentucky students.

The William H. and Louella M. Ball Endowed Scholarship — The yield from this endowment is to be used to underwrite scholarships for qualified needy students from Knox or Lawrence Counties, Kentucky. Should there not be any eligible students from these counties, then other areas will be given consideration. The scholarship has been established by sons, William H. and Robert C., and other family members and friends.

Bank of Harlan Scholarships — A number of scholarships are given annually to qualified students from Harlan County by the Bank of Harlan. The grants are determined according to financial need and academic excellence.

Barbourville Kiwanis Scholarship — The Kiwanis Club of Barbourville, Kentucky, has supplemented an educational fund originated by Mr. C. F. Heidrick and established a scholarship fund at Union College for promising students from Knox County, Kentucky. The scholarship is for $700.

Barbourville United Methodist Church Music Scholarships — Annually the First United Methodist Church of Barbourville, Kentucky, awards four scholarships of $200 (for a total of $800) to music students. Consideration is given for participation in the music program of the local church.

Bell County Scholarship — A friend of Union College from Bell County, Kentucky, has established a scholarship endowment with the income to be awarded annually to a Bell County student. This grant will be approximately $350 per semester.

Bryon B. Berry Appalachian Scholarship Endowment — Byron B. Berry, a 1935 alumnus, has established a $10,000 Appalachian Scholarship Endowment for a student majoring in English with journalism as a career option. Preference is to be given to, but not limited to, a student from Lawrence County, Kentucky. Otherwise the grant is open to any student from Appalachia.

Henry C. Black Memorial Scholarship — This scholarship of $250 a semester is given as a memorial to Mr. Henry C. Black, a graduate of Union College, to a freshman graduating from high school in Kentucky or Tennessee.

John A. and Hannah P. Black Memorial Scholarships for Christian Workers — The late Dr. and Mrs. Henry C. Black, of Johnson City, Tennessee, endowed a scholarship that provides an annual grant of $500 a semester for a promising student who plans a life of service in the United Methodist Church.

Dr. and Mrs. James F. Blair Scholarships — Dr. and Mrs. James F. Blair of Barbourville, Kentucky, have endowed two $600 scholarships for students from Knox County, Kentucky. They are awarded annually to students in the sophomore, junior or senior year.

The Thelma Morehead Blair and Robert A. Blair Endowed Scholarship — Their daughter and son-in-law, Jeanette Blair Ladenburger (a Union College trustee) and John L. Ladenburger established a scholarship endowment in memory of Mr. and Mrs. Robert A. Blair. The earnings are to provide scholarships for Southeastern Kentucky students. Both Mr. and Mrs. Blair were graduates of Union College.

The R.L. Brown Family Endowment Scholarship — Mr. R.L. Brown, Jr., a Union College trustee from Corbin, Kentucky, has established an endowed scholarship for needy students. The late Mr. and Mrs. R.L. Brown, Sr. were graduates of Union College.

The Annette and Berry Burnaw Scholarship Endowment — Given by James Burnaw, an alumnus and Union College trustee, in honor of his parents. The yield is designated for a student from Nicholas County, Kentucky. Should there be no qualified student from this area during a given year, the scholarship will be given to some other Kentucky student.

The Eulalia Serrano Cabrero Memorial Scholarship — Miss Carmen Cabrero, '64, Jacksonville, Florida, has established a scholarship in memory of Eulalia Serrano Cabrero, a 1964 graduate of Union College. The $300 scholarship is available to a needy student of a minority background interested in a service profession.

Dr. and Mrs. Carlo B. Cawood Memorial Scholarship — The late Dr. and Mrs. Carlo B. Cawood of Harlan, Kentucky, endowed a scholarship to be awarded to a Harlan County student, with preference being given to a student from the Harlan United Methodist Church. The scholarship may be renewed. The grant is $800 per year.

Mamie D. Chambers Endowment Fund — The late Mamie D. Chambers of Maysville, Kentucky, established an endowment fund, the

income from which is used to help support grants to needy and deserving students.

The Class of 1964 Scholarship — The alumni of the class of 1964 have established a student financial aid endowment totaling in excess of $5,000 including accumulated interest. The interest is to be used to promote geographical diversity in the full-time resident student body. A scholarship is to be awarded annually to a needy candidate from an under represented geographical area.

The Mary Clement Memorial Scholarship — Earl Clement, son of Mrs. Clement, has established a student financial aid endowment totaling $5,000 including accumulated interest, in her memory. The interest is to be used to fund a scholarship. The scholarship is to be awarded annually to a needy candidate from the state of New Jersey. Mrs. Clement, a resident of New Jersey for over eighty years, had a great love for education. Another son, Robert, is a graduate of Union College and served as Dean of Students from 1968-1975.

The Dr. Emerson G. and Edith Cobb Chemistry Endowment Fund — Dr. and Mrs. Emerson G. Cobb of Burson, California, have established an endowment for the support of a scholarship for the College's Chemistry Department. Dr. Cobb, a 1928 graduate of Union College, headed Union's chemistry program and later became head of the Department of Chemistry at the University of the Pacific, Stockton, California. Mrs. Cobb, the former Edith K. Cheap, is a 1929 Union graduate.

The Robert H. Cole Memorial Scholarship — Mrs. Monica M. Cole established this in memory of her late husband Robert H. Cole, a native of Barbourville and former student at Union College. During his lifetime and since his death, the late Mr. Cole and Mrs. Cole have been major donors to the College, having given more than $75,000 for operation and building needs in memory of Mr. Cole's parents, Mr. and Mrs. L.M. Cole, long-term residents of Barbourville. Mr. Cole built a chain of 35 drugstores in Tennessee and neighboring states. He also established the Robert H. Cole Microvascular Surgery Laboratory at the University of Tennessee. The scholarship is limited to students from Kentucky and Tennessee.

The Reverend Howard and Kathryn Coop Scholarship — Established in honor of the Coops by friends in churches where they have served, the Coop Scholarship is designated for Methodist students with preference being given to Kentucky Methodists.

The Davies Memorial Scholarship — The family and friends of Miss Ellen Davies and the late Dr. T. R. Davies have endowed a $1,600 scholarship to be awarded annually to a freshman or to an upperclassman with a "B" standing from Bell, Clay, Harlan, Knox, Laurel or Whitley County.

The Doan-Woody Scholarship — Oatis Doan of Harlan, Kentucky, has endowed a scholarship that provides an annual grant to a southeastern Kentucky student who has a 3.25 grade-point average. The grant, a memorial to Oatis Doan, Sr., is in honor of Mary H. Doan and Dr. Lester G. Woody, and may be renewed if the student maintains an overall grade-point average of 3.00 or better. Dr. Woody was Professor Emeritus of English at Union College.

Dr. Robert M. Drew Endowment Fund — The Commission of Missions of the Hyde Park Community United Methodist Church, of Cincinnati, Ohio, has established an endowment fund in honor of the Rev. Dr. Robert E. Drew. This fund will be used for scholarship grants to foreign students.

Dr. Franklin Duncombe Memorial Fund — Mrs. Helen Duncombe of Haverford, Pennsylvania, has established an endowment fund in memory of her late husband. Income will be used to finance grants-in-aid for students planning to enter the United Methodist ministry.

Alfred I. DuPont Scholarship Fund — The late Mrs. Alfred I. DuPont of Wilmington, Delaware, established scholarships for needy students having high academic potential. Preference is given to students from the Appalachian counties of Kentucky and Appalachian regions in adjoining states. This amounts to $5,000 annually.

Sam Coone Early Endowment Scholarship — The family of Sam Coone Early has endowed a scholarship to be awarded annually to a needy student. Mr. Early was a student at Union College in the late 1920's.

E. Nettie Edinger Memorial Scholarship — The late Mr. Joseph Edinger endowed this scholarship in memory of his sister. The scholarship is awarded annually to a deserving and worthy student enrolled at Union College.

Dr. and Mrs. J. Edward Faulkner Memorial Scholarship — This $500 scholarship is awarded to a student who plans a life of service

in the healing arts, with preference being given to a pre-dental student.

John D. Feather Scholarships — The late John D. Feather of Corbin, Kentucky, a 1940 graduate of Union College, has endowed scholarships to Union College for students from Corbin High School. The trust fund will provide funds for this scholarship program.

The R.B. Fenley Scholarship — Mr. R.B. Fenley of Louisville, Kentucky, has endowed a scholarship for needy Kentucky youth who show promise of future usefulness. Mr. Fenley is a former trustee of Union College.

The GAR Foundation Endowed Scholarships — The GAR Foundation has endowed scholarships for Appalachian students with priority being given to those from the Fifth Congressional District.

The President E. T. Franklin Endowed Scholarship — Mrs. Grace I. Franklin, widow of former Union College President E. T. Franklin, and the immediate family have established an endowed scholarship, the yield from which will be awarded to a student or students who maintain acceptable grades who are in financial need, and who plan to enter some form of Christian service.

W. Glover Giles Memorial Fund — The late Mr. W. Glover Giles of Louisville, Kentucky, a former trustee of Union College, established an endowment fund by gifts during his lifetime and by a bequest. Income is used to fund Honor Scholarships at Union College.

John O. and Harriet B. Gross Memorial Scholarship — Family and friends have endowed a scholarship. Dr. Gross was president of Union College during the years 1929-1938. The scholarship is awarded annually to a Kentucky senior student with preference being given to one from Northern Kentucky. The stipend and requirements are the same as for "United Methodist Scholarships."

Hugh and Joyce Haggard Memorial Scholarship — A scholarship fund memorializing Dr. Hugh E. and Joyce A. Haggard, and their children, Walter M. and Stephanie L., has been established by the parents and brother of Dr. Hugh E. Haggard. Income from the fund provides an annual scholarship for a full-time student at Union College. The $2,000 scholarship will be awarded to a worthy student on the basis of financial need.

The Hauser and Sanslow Scholarship — This scholarship was established by Elizabeth Hauser Sanslow in memory of her parents, Gus A. and Mary H. Hauser, and her late husband, James H. Sanslow. Her father was a former Superintendent of Buildings and Grounds at Union College. The annual scholarship is available to students from the Appalachian tri-state area of Southwestern Virginia, Southeastern Kentucky, and Eastern Tennessee. Preference is given to students entering the field of education.

Dewey and Rachel B. Hendrix Memorial Endowment — Dwight M. Hendrix, an alumnus of Union College and his sister, Mrs. Mary Katherine Hendrix Brashear of Hyden, Leslie County, Kentucky, have established an endowment to memorialize their parents. The endowment is designated for financial aid, with the income to assist needy and qualified students enrolled full-time. Students who are residents of Leslie County, Kentucky, are given preference. Should no one qualify, then the grants are to be given to students from the Appalachian Region of Kentucky.

Walter S. and Ida Cole Hudson Scholarship Fund — The late Ida Cole Hudson of Barbourville, an alumna of Union College, endowed, through a bequest, a fund to provide scholarships in memory of her son, John Randall Hudson, a first lieutenant in the Air Force and a casualty of World War II. The fund will provide scholarships for students from Knox County.

Irene Hughes Scholarship — Miss Irene Hughes (AB'37; MA '63), Barbourville, Kentucky, provides an annual scholarship of $250 for a freshman girl, a graduate of Knox Central High School, who has been a member of the High School Honors English Class and who exemplifies Christian principles of conduct. The scholarship will be awarded by the Alumni Scholarship Committee.

Dr. W. A. E. Johnson Memorial Scholarship — Mrs. W. A. E. Johnson of Lawrenceburg, Kentucky, and friends have endowed a scholarship in memory of her late husband, a Union graduate and long-time friend of the College. The scholarship is designated for preministerial or Christian-service students.

The Ollie Cole Jones Scholarship Endowment — Mrs. Ollie Cole Jones, a native of Barbourville and a 1913 Union College alumna, has established a scholarship endowment in memory of Mrs. Ida Cole Hudson's son, John Randall Hudson, a first lieutenant in the Air Force and a casualty of World War II. The fund

will provide scholarships for Knox County students.

Professor and Mrs. Millard L. Jordan Scholarship — Professor and Mrs. Millard L. Jordan of Lakewood, Ohio, have established a scholarship fund at Union College to aid worthy Appalachian students.

Junior Study Club Scholarship — The Junior Study Club of Barbourville, Kentucky, provides a $200 scholarship to aid a worthy student from Knox County, Kentucky. The scholarship is awarded to a girl who graduated from a high school in Knox County and who is a junior or senior at Union College.

Kentucky River Coal Corporation Scholarship — A scholarship endowment has been established by the Kentucky River Coal Corporation, Lexington, Kentucky, for needy students from Knott, Leslie, Letcher, and Perry Counties, Kentucky. Recipients must have a grade point average of at least 2.0 during their senior year in high school, or must have or maintain a grade point average of at least 2.5 at Union College.

The Kilgore Endowed Scholarship — "Sometimes all it takes for a person to get a good education is a little help on the first step." This scholarship shall be awarded to a person entering the freshman class and will endender equity between women and men. Recipients will be selected from Southeastern Kentucky, Eastern Tennessee, and/or Southwestern Virginia. The scholarship designation will be made by the Union College Scholarship Committee. The endowment has been founded by Dr. Shirley Kilgore Weber, a native of Corbin, Kentucky, and professor at Rutgers University for many years. The yield from this endowed scholarship is designated for the scholarship.

Jeffrey W. Kronk Memorial Scholarship — Mr. and Mrs. Walter F. Kronk of Huntsburg, Ohio, have endowed a scholarship for a needy, qualified student from Geuga, Lake, or Astabula Counties in Ohio, or from the Appalachian counties of southeastern Kentucky. The scholarship is in memory of their son, Jeffrey, who was enrolled at Union College from 1963 through 1967. Should there be no qualified student from these areas in any given year, the endowment income will be used to support the Lincoln-Civil War Collection at Union College.

Verna Noe Landrum Memorial Scholarship — Mr. John W. Landrum of Harrodsburg, Kentucky, has established a $500 annual scholarship at Union College in memory of his mother, Mrs. Verna Noe Landrum. The award is to go to a student from Harlan County.

W.B. Landrum Memorial Scholarship — Mr. John W. Landrum of Harrodsburg, Kentucky, provides annually a scholarship of $500 in memory of his father for a promising United Methodist ministerial student. The student benefited by this scholarship must exhibit outstanding personal attitudes of religious sincerity, devotion, and earnestness in purpose.

Dorothy Lucas Memorial Fund — An endowment fund has been established in memory of Miss Dorothy Lucas, registrar of Union College for many years and beloved friend of students. The income from this fund is used to support various student-aid activities of the College.

The Magee Christian Education Foundation awards annually a scholarship for students entering Christian vocations or professions or to those of economic need who are of Christian commitment.

The Robert and Tilitha Meade Memorial Scholarship Fund — This fund has been endowed by Mrs. Nancy Meade Ford of Naples, Florida, for a student from Letcher County or from Eastern Kentucky. Mrs. Ford attended Union College and is a native of Letcher County, Kentucky. She was a public school teacher for many years.

Gayle Miles Scholarship — An endowed scholarship has been established by friends and former students of the late Gayle Miles for students from Barbourville High School. Miss Miles taught at both Barbourville Elementary and Union College.

John and Minnie B. McGaffee Trust Fund — Dr. and Mrs. O.J. Wilson of Louisville, Kentucky, have established the John and Minnie B. McGaffee Trust Fund for the purpose of providing financial assistance to worthy and needy preministerial students. The income may be used for grants or loans, with preference being given to students from the Appalachian Region of Kentucky.

Drs. Robert and Gertrude McGuire Endowed Scholarship — Drs. Robert and Gertrude McGuire, graduates of Union College, have established an endowed scholarship for a Union student having a financial need and maintaining a minimum of a B average. This scholarship amounts to $1,100 annually. Dr. Gertrude McGuire is a Union College trustee.

National United Methodist Scholarships — The Board of Education of the United Methodist Church makes available annually several United Methodist Scholarships of $500. The awards are made on the basis of character, need, and scholastic ability. Only students having at least a "B" average are eligible.

Mr. and Mrs. Hiram H. Owens Memorial Scholarship — Mrs. Sampson B. Knuckles (Jean) and the late Mrs. Buford T. Clark (Eleanor) have endowed a scholarship for a Knox County student in memory of their parents, Mr. and Mrs. Hiram H. Owens. Mr. Owens was a well-known lawyer and Mrs. Owens (Georgia Black) was the daughter of James D. Black, a governor of Kentucky and a president of Union College. Mrs. Knuckles is a former Union College trustee.

The Frances L. Patridge Scholarship — Friends have endowed a scholarship in honor of Dr. Frances Patridge, a friend and employee of the College longer than any other faculty member, with over 40 years of service. Her last title was Vice President for Student Affairs. Dr. Patridge is currently Associate Professor Emeritus of Health and Physical Education. The yield will be placed in the general scholarship fund and designated for upper division students with a 2.5 or better grade point average.

Emory Evan Peter Memorial Endowment — The late Mrs. Laura P. Dickey of Louisville, Kentucky, established an endowment fund in memory of her brother, Emory Evan Peter. The income from this fund will be used to help finance the college student-aid program.

Ivan Pettys Scholarship Fund — Friends and family of the late Dr. Robert V. Pettys, Professor Emeritus of Business, have established this scholarship fund in honor of Dr. Pettys' father. The scholarship will assist non-traditional students who show academic promise and financial need.

Donald Rankin Memorial Scholarship — Friends of Donald Rankin, a Union College student killed in Vietnam, have provided a scholarship that pays $350 annually to a young man from Kentucky. Basis for awarding the scholarship is need and the earnest desire for a college education.

Milton M. Ratner Foundation Scholarship and/or Student Loan Endowment — The Milton M. Ratner Foundation has established a scholarship and/or student loan endowment with the yield designated for needy, deserving Appalachian students.

The Dr. H. Warren Robbins Scholarship — Mrs. Ruth Ann Payne Hicks, a 1972 Union graduate and vice president of the Dual Machine and Tool Corporation of Indianapolis, Indiana, has established this scholarship. The yield from this fund is designated for students from Appalachia who desire to enter the teacher-education program and graduate as teachers. Dr. Robbins served Union College for thirty-five years and was Dean of Graduate Academic Affairs for fifteen years. He is presently Professor Emeritus of Education.

The Marvin Robbins Endowed Memorial Scholarship — An endowed scholarship has been established in memory of Mr. Marvin Robbins, a graduate of Union College. The applicant must be an upperclassman who is a Bell County High School graduate. The selection will be based upon academic achievement and financial need.

E.O. Robinson Mountain Fund Scholarship — The E.O. Robinson Mountain Fund has established an annual scholarship program to assist needy students who reside in the Appalachian Region of eastern Kentucky. Students receiving these scholarships should give promise of being able to complete their academic work successfully.

Sue P. Rosenbalm Scholarship — Mrs. Sue P. Rosenbalm of Ewing, Virginia, has established a scholarship to be awarded to a qualifying student from Lee County, Virginia. Mrs. Rosenbalm is a 1949 graduate of Union College.

Sanders Honor Scholarship — The late Colonel Harland Sanders of Shelbyville, Kentucky, provided a number of honor scholarships annually. Mrs. Claudia Sanders, his widow and former Union College trustee, continues to provide them. The Sanders Honor Scholarships are limited to students who do not use tobacco and alcoholic beverages.

The Dr. and Mrs. Phillip A. Sharp Endowed Scholarship — Dr. and Mrs. Phillip A. Sharp, both Union College graduates who now reside in Newton, Massachusetts, have established an endowed scholarship with the yield designated for needy, qualified students. Dr. Sharp, who is head of the Department of Biology at Massachusetts Institute of Technology in Cambridge, Massachusetts, was the co-recipient of the Nobel Prize in Medicine in 1993.

Sims Scholarship Fund — Reverend and Mrs. Harry C. Sims of West View, Kentucky, have established a scholarship fund at Union College to aid worthy students preparing for the United Methodist ministry.

The Catherine Faulkner Singer Memorial Scholarship — This $500 scholarship has been established by friends, alumni, and her daughter and son — Marcia and Donald — for the son or daughter of an alumnus of Union College. The honoree was Director of Alumni Affairs from 1961 to 1978.

Cawood Smith Harlan County Scholarship — Dr. Cawood Smith, Harlan County attorney, has established an endowment for scholarships to be awarded to the son or daughter of miners from Harlan County, Kentucky. The recipient shall be a resident of Harlan County and is to be selected upon the basis of need, scholarship, and promise of future usefulness in the coal region. This annual grant shall total $2,400.

Margaret Carter Stacy Scholarship Fund — Margaret Carter (Mrs. Cortis K.) Stacy of West Liberty, Kentucky, has endowed a scholarship fund for the support of students from Morgan County, Kentucky, or for Appalachian students. Mrs. Stacy is a strong United Methodist with interest in higher education for the youth of Appalachia.

Dr. and Mrs. Charles B. Stacy Memorial Scholarship Fund — A scholarship fund has been endowed in memory of Dr. and Mrs. Charles B. Stacy of Pineville, Kentucky, for students from southeastern Kentucky. A longtime friend of Union College, Dr. Stacy had an abiding interest in education of the Appalachian region.

Charles R. Steele Memorial Scholarship Fund — Martha Brittain Steele has established this scholarship as a memorial to her late husband, Charles R. Steele, a 1933 graduate of Union College. Preference is to be given to, but not limited to, a student from Mason County, Lewis County, or Harlan County. Otherwise the grant is open to any student from Appalachia.

The Steele-Reese Foundation Endowed Scholarships — The Steele-Reese Foundation of New York City has established a $100,000 endowment with the yield being designed for scholarships for qualified Appalachian students.

The Stevens Family Scholarship Fund — Dr. Erland P. Stevens, Chairman Emeritus of the Union College Board of Trustees of Ashland, Kentucky, and Mrs. Stevens have established a scholarship fund with 80 percent of the earnings being distributed annually as scholarship grants and with 20 percent of the yield being reinvested in the Stevens Family Scholarship Fund. The scholarships shall be a part of the College's general scholarship fund.

Lewis Ogden Stiles Endowment Fund — The late Mrs. Lewis Ogden Stiles of Waco, Texas, established this fund to memorialize her late husband, Lewis Ogden Stiles, and his first wife Pearl Long Stiles, both faithful United Methodists of Irvington, Kentucky. The income from this fund will be used to finance grants-in-aid under the college loan-grant program to United Methodist students planning to enter the ministry of the Kentucky or Louisville Annual Conference.

The Walter B. and Geraldine G. Sutton Memorial Scholarship — An annual scholarship will be given to a Knox County student attending Union College. The selection will be determined by the student's need, academic ability, and promise of future usefulness. The endowment is provided by two daughters: Carla Sutton Combs and Lynn Sutton Prichard.

Lytle and Dorothy Swope Scholarship — Dr. Samuel G. Swope of Louisville, Kentucky, a trustee of Union College, and F. William Swope of Elizabethtown, Kentucky, have established a scholarship endowment as a memorial to their parents. Funds for the endowment came from their parents' estate. Up to four scholarships are awarded annually with grants of $600 each. Preference is given to students born in Kentucky, Ohio, or Florida.

Hulbert Taft, Jr., Memorial Scholarship — Mrs. Thomas C. Haydock, Sr., of Cincinnati, Ohio, has provided a scholarship endowment as a memorial to her late husband, Hulbert Taft, Jr. The income from the endowment will be used annually to provide one or more honor scholarships to needy students having high academic potential.

The Dot Tatman Endowed Scholarships — Four $250 endowed scholarships have been established by the Reverend Dr. Harold W. Tatman, Jr., (a Union College trustee) in honor of his wife, Dot. The scholarships are to be given to freshmen and continue over the four-year period with preference to Kentucky female students.

The Teagle Foundation Appalachian Scholarships — The Teagle Foundation of New York City has established a number of scholarships for qualified Appalachian students. The foundation was established by Walter Clark Teagle, Rowena Lee Teagle, and Walter C. Teagle, Jr.

Edward Townsend Memorial Scholarship — The late Dr. Milton H. Townsend, former Vice President of Union College and Assistant to the President for External Affairs, endowed this scholarship with preference being given to a history and political science major. The grant is in memory of Dr. Townsend's late father.

The Milton H. Townsend Memorial Scholarship — This scholarship was established by Mrs. Betty Townsend, the family and friends of Dr. Milton H. Townsend. At the time of his death, Dr. Townsend had served Union College for 42 years in various capacities, the latest being that of vice president for the College and assistant to the president for external affairs. The scholarship will be awarded annually to a student(s) who has financial need. Preference will be given to a history or political science major.

TREMCO, Inc., Scholarship — Scholarships amounting to $4,000 annually are awarded by TREMCO, INC., a division of B.F. Goodrich Company, to science or chemistry students with preference being given to students from southeastern Kentucky.

Allan Tuggle Scholarships — Allan Tuggle, M.D., of Charlotte, North Carolina, an alumnus of Union College, has established a number of scholarships in mathematics and physics.

Several of the scholarships are awarded to entering freshmen on the basis of competitive examination. Other scholarships are awarded to current students with majors or minors in mathematics or physics on the basis of academic achievement. Some of the scholarships may be in the form of work grants.

Union National Bank Scholarship — The Union National Bank of Barbourville, Kentucky, has established a half-tuition scholarship at Union College to aid worthy students from Knox County, Kentucky. It is awarded to a student graduating from a high school in Knox County, for the freshman year at Union College.

Vaughn and Melton Company Scholarship — This scholarship is given by Vaughn and Melton, Consulting Engineers of Middlesboro, Kentucky. This is an annual award of $500 for a student from southeast Kentucky whose high school and college scholastic record reflects the potential for making a major contribution to the quality of life of the region.

Harry C. Viall Memorial Scholarship — Mrs. Harry C. Viall of Barbourville, Kentucky, has endowed a memorial scholarship for a needy, qualified student with preference going to an individual from Knox County. The annual $1,300 scholarship is given in memory of her late husband, Harry, who was a prominent local businessman.

Mr. and Mrs. O. H. Viall Memorial Scholarships — The family of Mr. and Mrs. O. H. Viall of Barbourville, Kentucky, has established a memorial scholarship fund at Union to aid worthy students. The number and size of the scholarships vary according to student financial need.

The Robert E. and Ann Viall Endowed Scholarships — Mr. and Mrs. Robert E. Viall of Barbourville, Kentucky, have established endowed scholarships that provide $6,000 annually for worthy students from either Knox or Bell County. Mr. Viall is a Trustee Emeritus of Union College.

The Nevil and Ethel White Memorial Endowed Music Scholarship — This scholarship, given by family and friends, has been designated as a music scholarship for students from Kentucky. If no Kentucky students are eligible, the scholarship may be awarded to any student or students majoring in music. Mrs. White was a former member of the music faculty at Union College. Dr. White, her late husband, was a graduate of Union College and served as secretary of the Union College Board of Trustees for many years.

William M. Wilson Memorial Scholarship — The late Mrs. Eva Oldfield Wilson of Barbourville, Kentucky, established a scholarship fund in memory of her late husband. The income from the fund will be used to provide an annual grant of $500 for a promising student preparing to teach in the elementary or secondary schools.

The Dr. C.R. Wimmer Endowed Chemistry Scholarship Fund — This scholarship, established by Mrs. C.R. Wimmer and friends, is to be awarded to a chemistry student at Union College or to one seeking admission as a chemistry student. Dr. Wimmer was professor of chemistry, head of the Chemistry Department,

and director of the Department of Physical Sciences from 1932 to 1946. He was academic dean at the College from 1934 to 1946.

Dr. Henry M. Zimmerman Scholarship — The late Dr. Henry M. Zimmerman of Pompano Beach, Florida, established a scholarship endowment for needy students of exemplary character who show promise of being able to contribute to the well-being of their country and their fellow man.

Endowments

The Russell M. Bennett Memorial Professor of Sociology Chair — Mrs. Helen Hunt Bennett gave $75,000 to Union in 1946 for the endowment of this professorship. An additional $2,000 was given for equipment for the Business Department.

William Glenn Clark Endowed Scholarship — Established in 1993 through a gift from the estate of Dr. W. Glenn Clark. The income from the endowment will be used to provide scholarship support for Union students with financial need. Dr. Clark was a 1936 graduate of Union College.

The Cumberland Gap Genealogical Collection — This collection has been endowed by Dr. Robert M. Blake of Maysville, Kentucky, in memory of his late wife, Mrs. Noma Osborne Blake, who was a Barbourville native and a proponent of preserving the heritage of the mountain families of the tri-state area of Eastern Kentucky, Eastern Tennessee, and Southwestern Virginia. The collection is under the supervision of the Union College library staff and volunteers from the region.

Andrew and Emma Elizabeth Edinger Memorial Fund — This fund was established by the late Mr. Joseph Edinger in memory of his mother and father. The fund has been increased by other members of the family and the income designated for use in the maintenance of campus buildings.

James P. Faulkner Memorial Endowment — James P. Faulkner of Barbourville, Union College president from 1897 to 1905, gave property to the College, the sale of which produced $57,500. The income from this investment is used for salary support for a faculty member in philosophy.

The Harry L. Frey Scholarship Fund — Harry L. Frey, formerly of Lexington, Kentucky, and a member of the First United Methodist Church of that city, has established an endowment for scholarships for Union College students.

The Raymond W. Gibson, Sr., Chapel Endowment — Mr. Raymond W. "Deacon" Gibson, Senior, of Danville, Kentucky, established a $50,000 endowment at Union College in 1979 for the upkeep and maintenance of the Conway Boatman Chapel. His son, Raymond W. Gibson, Jr., served as Campus Minister at Union College from 1974 to 1979 and is currently a Union College trustee. The late Mr. Gibson, a prominent layman in the Kentucky Conference of the United Methodist Church, was a long-time friend of Union College.

Dr. Frank A. and Mrs. Eleanor Gilbert Biology Faculty Endowment — The late Dr. and Mrs. Frank A. Gilbert established a Biology Department Endowment to augment the salaries of the biology faculty. The annual supplement will be in addition to regular salaries. Dr. Gilbert was professor emeritus of biology at Union College.

The Charles M. and Mary D. Grant Faculty Endowment — The Charles M. and Mary D. Grant Foundation of New York City has provided an endowment for faculty development at Union College. The yield from this fund will support increased faculty salaries and professional advancement for the faculty members. The endowment was established in 1989.

The Margaret Voorhies Haggin Trust — of New York City has contributed to the Union College Endowment Fund. The yield from this fund will support increased faculty salaries and professional advancement for the faculty members. The endowment was established in 1989. The trust contribution is in memory of the late James B. Haggin of Lexington, Kentucky.

Anna E. and John William Harris Memorial Fund — The late Dr. J. William Harris established a lectureship fund containing the sum of $30,000 in memory of his sister, Anna E. Harris, and his father, John William Harris.

The William Randolph Hearst Foundation — of New York City has established an endowment for faculty development at Union College. The yield from this fund will be used to support increased faculty salaries and professional advancement for the faculty members. The endowment was established in 1987.

The Ray C. Hensley Business Simulation Center Endowment — This has been established by Cavalier Construction, Inc., of Springfield, Ohio, as a memorial to Ray C. Hensley, the father of Pamela K. Hensley, an alumna and former faculty member at Union College. This was established in 1990.

The Kenneth G. Herrick Faculty Endowment — Kenneth G. Herrick of Tecumseh, Michigan, has established a Faculty Development Endowment at Union College. The yield from this fund will support increased faculty salaries and professional advancement for the faculty. This endowment was established in 1986.

The Professor Daniel M. Humfleet Scholarship Endowment — Mrs. Bernice Humfleet Aguilera of Natchitoches, Louisiana, has established a $25,000 endowment at Union College in memory of her father, Professor Daniel M. Humfleet, a former faculty member of the College. The yield from this fund will go for the support of a scholarship for a Knox County student who plans to enter the teaching profession. The scholarship will begin following the lifetime of Mrs. Augilera.

Charles and Leona Jennings Memorial Funds — Dr. Charles M. Jennings of Marietta, Georgia, has established an endowment fund in memory of his parents, Charles and Leona Jennings, the income from which is to be used to provide an annual bonus to the head of the Department of Biology at Union College.

The Christian A. Johnson Endeavor Foundation Endowment for Faculty Development — The Christian A. Johnson Endeavor Foundation of New York City has established an endowment to support Union College's faculty enrichment program. The yield from the endowment will support professional growth opportunities for faculty members and increased faculty salaries. The endowment was established in 1992.

William Jones Endowment Fund — The late Mr. William Jones of Barbourville, Kentucky, established a fund, the income from which is designated for use by the music department to purchase recordings and musical scores.

Jeffrey Kronk Memorial Endowment — This endowment, established by the Senior Class of 1967, in memory of Jeffrey Kronk, a member of that class, will assist in purchasing books for Union College's Lincoln-Civil War Collection.

Francis Landrum Memorial Professor of Religion and Philosophy — The late Mrs. Obed J. Wilson established the Francis Landrum memorial professorship through a bequest of $50,000 in 1927.

Dr. Jean Letch Education Scholarship Endowment Fund — Established by an anonymous donor in honor of former Union College faculty member Dr. Jean Letch. The yield from the fund will provide a scholarship(s) for a full-time student(s) majoring in education and who has demonstrated academic achievement and financial need. A portion of the interest will be used to purchase a plaque to be presented at Honor's Day to the outstanding education student of the year. It will be called the Dr. Jean Letch Education Award.

Melanie Jean Martin Trust Fund — Dr. and Mrs. O. J. Wilson, of Bowling Green, Kentucky, have established a memorial fund in memory of their granddaughter. The income from this fund is used to purchase library books to support the work of the English department.

Pearl Sinnett Meyer Memorial Fund — The Rev. Dr. Jesse I. Meyer has established an endowment fund in memory of his wife, Mrs. Pearl Sinnett Meyer. The income of this fund is designed for the purchase of books for the Union College library.

Vertie Ruth Norsworthy Endowed Scholarship — This scholarship fund, established through a bequest by the late Vertie Ruth Norsworthy, is designated to assist needy students who plan to become ministers or public school teachers. The interest generated by the endowment will fund the scholarships.

William S. Stewart and Lou Lyttle Stewart Endowed Scholarship Fund — Established in 1993, the interest or income accrued annually by this fund will be used to provide scholarships for students from Bell, Clay, Harlan, and Knox Counties. Recipients must show financial need and have a GPA of at least 2.0.

The Teagle Foundation Faculty Development Endowment Fund — The Teagle Foundation of New York City has established an endowment to support Union College's faculty enrichment program. The yield from this fund will be used to support faculty salary increases and professional development opportunities for faculty members. The foundation was established by Walter Clarke Teagle, Rowena Lee Teagle and Walter C. Teagle, Jr.

Allan Tuggle Endowment Fund — Allan Tuggle, M.D., of Charlotte, North Carolina, an alumnus of Union College, has established a fund, which may be augmented from time to time, the income from which is designated for scholarships, awards, and instructional support in mathematics and physics.

The Bryan W. Whitfield-Kentucky Jellico Coal Company Memorial Fund — This fund was established by Bryan W. Whitfield, Jr., of Harlan, Kentucky, in memory of his father, Bryan W. Whitfield, founder of the Kentucky Jellico Coal Company. The income shall be used to establish a Student Financial Aid Loan Fund. The recipients shall be limited to students from Bell, Harlan, Knox, Letcher, and Whitley Counties in Kentucky and from Lee and Wise Counties in Virginia. The students are to be partially or wholly self-supporting.

Willson-Gross Lectures — The late Dr. and Mrs. James Wilson of Floydada, Texas, established a lectureship endowment in memory of Dr. and Mrs. John Owen Gross. The purpose of the lectures is to bring annually to the campus distinguished speakers to discuss vital issues confronting the Christian student.

Colutha J. Taylor Wright Memorial Fund — The late Mr. J. S. Wright of Whitley City, Kentucky, established an endowment fund in memory of his wife, Mrs. Colutha J. Taylor Wright. The initial sum was $1,000.

Awards

Note: These awards may be presented at the annual Honors Day Convocation. Some are academic in nature; to be eligible for such awards, students' academic records should not include any grades of "incomplete." Postgraduate students are ineligible to receive these awards.

Alpha Psi Omega Award — given by the Director of Union College Theatre to the senior who has made outstanding contributions to theatre during his/her years at Union.

Bjornstad Freshman Composition Award — given by the late Dr. William Bjornstad, a former faculty member of Union College, and Mrs. Bjornstad, to the student achieving the highest writing excellence in freshman composition courses as determined by the English Department.

Governor James D. Black Senior Award — given by the late Mr. Pitzer D. Black of Barbourville to the senior with the highest scholastic average for the year.

Blackwell Political Science Memorial Award — given by the late Dr. Robert Lee Blackwell to the senior majoring in history and/or political science showing the highest academic excellence in the field of political science.

Erwin S. Bradley History Award — given to an upperclass student with a major in history who has the highest scholastic average in overall grades in history earned at Union College.

Melva and Kathy Brick Award — given by Mr. Theodore F. Brick, family and friends to the student showing the highest proficiency in competitive swimming.

Calculus Award — given by a friend of the College to the student with the highest cumulative average in all three calculus courses offered at Union.

Campus Activities Board Award — given by the Campus Activities Board to the junior or senior member who has contributed the most to the Board and to student activities at Union College during the current academic year.

Campus Activities Discretionary Fund Committee Student Organization Achievement Award — given by the Campus Activities Discretionary Fund Committee to the campus organization which, in the committee's opinion, has contributed the most toward campus activities during the academic year.

Campus Ministry Award — given to the senior who, by his or her actions, exemplifies selflessness and concern for the needs and well-being of others as determined by the office of Campus Ministry.

Chemical Rubber Company Freshman Chemistry Award — given by the Chemical Rubber Company Press of Boca Raton, Florida, to the outstanding freshman chemistry major.

Dr. Theodore R. Davies Senior Biology Award — given in memory of the late Dr. Theodore R. Davies to the senior student showing the highest academic excellence in the field of biology.

Eastern Kentucky Essay Award — given by the late Dr. Kenneth H. Tuggle, a former trustee of Union College, to the student writing the best essay on eastern Kentucky history.

Engineering Award — given by a friend of the College to the student with the highest cumulative average in pre-engineering courses taught at Union College.

Evans, Phillips & Company Scholarship Award — given by Evans, Phillips & Company, C.P.A.'s of Barbourville — an annual $500 scholarship to be awarded to the most promising freshman or sophomore accounting major. The scholarship is to be used in the fall semester. The recipient also receives a plaque and a cash award.

Gamma Beta Phi Award — given by Gamma Beta Phi to the full time student with the highest cumulative average in hours earned at Union College.

Dr. L.A. Geiss Computer Award — given by the late Dr. and Mrs. L.A. Geiss, to the student exemplifying excellence in computer information systems. Dr. Geiss was a Union College trustee.

Dr. L.A. Geiss Junior Award — given by the late Dr. and Mrs. L.A. Geiss, to the junior majoring in accounting with the highest cumulative standing in that field. Dr. Geiss was a Union College trustee.

Dr. L.A. Geiss Senior Award — given by the late Dr. and Mrs. L.A. Geiss, to the graduating senior majoring in business with the highest cumulative standing in the field. Dr. Geiss was a Union College trustee.

Dr. Albert D. Graham, Jr., Social Studies Award — given by Dr. Albert D. Graham, Jr., to the senior education major who shows the greatest teaching potential in Social Studies.

Joe C. Hacker Award — given by a friend of Union College in honor of Mr. Joe C. Hacker who was a member of the Union College faculty for over thirty years. This award is given to the student showing interest and excellence in a first computer programming course.

Health and Physical Education Faculty Award — given by the Union College Health and Physical Education Department to the senior Health or Physical Education major with the highest cumulative academic standing.

Iota Sigma Nu Freshman Award — given by the Iota Sigma Nu Honor Society to the freshman with the highest scholastic average for the year.

Iota Sigma Nu Sophomore Award — given by the Iota Sigma Nu Honor Society to the sophomore with the highest scholastic average for the year.

H.B. Jones Business Enterprise Award — given in memory of Mr. H.B. Jones to the student who has shown initiative and enterprise in the field of business.

Steve Jones Memorial Award — given in memory of Steve Jones, a former Union College student, to the senior varsity letterperson with the highest cumulative academic average.

The Journalism Award — given by the English and Foreign Languages Department of Union College to the English major with journalism emphasis who has done the most to promote high journalism standards at Union College and who shows the greatest promise for success in a professional journalistic career.

The Literature Award — given by the Barbourville Tuesday Club to the student majoring in English who shows the greatest excellence in the field of literature.

Marigold Microcomputer Lab Award — given by the Union College Business Department in honor of Mrs. Connie Marigold, whose assistance and enthusiasm have greatly contributed to the development of the microcomputer laboratory. This award is given to the microcomputer laboratory assistant who has best demonstrated excellence through service to students and faculty in the microcomputer laboratory.

Mathematics Award — given by a friend of the College to the graduating math major who has the highest cumulative average in math courses at Union College.

Military Science Awards — these awards are given by various organizations to military science students for outstanding leadership qualities and achievements.

Dr. Mahlon A. Miller President Emeritus Award — given by Dr. and Mrs. Mahlon A. Miller to the senior with the highest cumulative average earned at Union College. Dr. Miller served as President of Union College from 1959-1982 and is currently President Emeritus.

Rena Milliken Award — given in honor of Miss Rena Milliken, Professor Emeritus of Business at Union College, by the Union College Business Department to the graduating senior who shows the greatest potential for professional achievement.

Dr. Paul Muncy Memorial Award — given in memory of Dr. Paul Muncy to the senior premedical student with the highest cumulative academic standing.

Music Faculty Award — given by the Union College Department of Music and Fine Arts to a music major for his or her interest, initiative, cooperation, musical ability, academics and service to the Music Department.

National Education Association — Student Program Award — given by the Union College Chapter of the National Education Association — Student Program to the graduating senior showing the greatest excellence in the field of education.

H.H. Owens History Award — given by the late Mrs. H.H. Owens to the student showing the greatest excellence in the field of history.

Laws and Esten Parks Award — given by Dr. S. Laws Parks, former Vice President for Business Affairs at Union College, and Mrs. Parks, to the senior religion major with the highest cumulative academic standing.

Patridge Theta Pi Delta Awards — given by the "Union Express" and **Stespean** staffs in honor of Dr. Frances Patridge, Associate Professor Emeritus of Health and Physical Education and former Vice President for Student Affairs at Union College, to seniors who represent the qualities of outstanding service exhibited by Dr. Patridge.

Phoenix Award — given by the theatre faculty to the freshman whose contributions make him/her the theatre's hope for the future.

Physics Award — given by a friend of the College to the student showing the greatest excellence in the general physics course taught at Union College.

William Faulkner Rushton Award for Appalachian Literature — given in memory of William Faulkner Rushton. This award has been established by parents and friends in honor of Mrs. Lura Faulkner Rose, the late Mr. Rushton's grandmother. Awards will be given to Union College students and students from a Knox County high school. Winning papers will be selected by a committee of judges from entries submitted by classroom teachers.

Sampson Political Science Award — given by the late Governor Flem D. Sampson to the junior showing the highest academic excellence in the field of political science.

William Hugh Smith Memorial Award — given in memory of the Reverend William Hugh Smith to a pre-ministerial or Christian-service student (with preference being given to a Christian-service student) who shows promise in the ministry.

Outstanding Sociology Major Award — given by the Social Science Division faculty to the graduating sociology major with the highest cumulative grade point average.

Hattie Stanberry Ecology Award — given in memory of Hattie Stanberry, an alumna and former faculty member, to the student or organization that has made a contribution to environmental improvement in the academic year. If there is no qualified candidate, the $50 stipend shall go to the College's Soccer Club, or, if there is none, it shall go to the Annual Fund.

Student Government Association Award — given to the newly elected Student Government Association President.

Student Government Association and Campus Activities Board Certificate of Service Award — given by the Union College Student Government Association and Campus Activities Board to a member of the Union College staff for his or her contributions to the Student Government Association and Campus Activities Board during the past year.

Student Government Association Distinguished Professor Award — given by the Union College Student Government Association to a member of the Union College faculty.

Katherine V. Sutphen Memorial Award — given in memory of Katherine V. Sutphen, a former faculty member of Union College, to the student who has used his or her talents best during the current academic year in serving the Union College Music Department.

Judge W.W. Tinsley Family Memorial Award — given by the late Mrs. Mayo Tinsley Rathfon to the junior or senior preparing for a legal career showing the greatest promise for future success.

Tremco, Inc. Award — given by Tremco, Inc. of Barbourville to the junior majoring in chemistry showing the highest academic excellence as determined by the science faculty.

Beverly P. and Mossie B. Wilson Memorial Award — given by Dr. and Mrs. O.J. Wilson in memory of Dr. Wilson's parents to the English major with the highest cumulative grade point

average who has completed three full years of residence at Union College.

Dr. Cecil H. Wilson Junior Award — given by Dr. Cecil H. Wilson, an alumnus and trustee of Union College, to the junior with the highest scholastic average for the year.

John Henry Wilson Sophomore Award — given by Mrs. Guy D. Atkisson, Jr., of St. Petersburg, Florida, the granddaughter of the late John Henry Wilson of Barbourville, to the sophomore from the Fifth Congressional District of Kentucky who has the highest scholastic average for the year.

Wimmer Chemistry Award — given by Mrs. Connie Wimmer in memory of her husband, Dr. C.R. Wimmer, to the student showing the greatest promise in the field of chemistry. Dr. C. R. Wimmer was head of the Chemistry Department at Union College from 1932 to 1946. He also served as academic dean during this time.

THE ACADEMIC PROGRAM

Academic Calendar

Union College operates on a semester system. The Fall semester begins in late August and ends before Christmas. The Spring semester runs from January to early May. The College has a special three-week May interim session as well as two five-week summer terms.

Freshman Seminar

Union College requires all full-time incoming freshmen to take the Freshman Seminar course. Classes for this one-hour course meet twice a week for a seven-week period. The goal of the course is to maximize the students' potential to achieve academic success and to adjust responsibly to the individual and interpersonal challenges presented by collegiate life. Each course will cover a variety of topics considered essential to meeting this goal.

Course Load

The normal undergraduate student load is sixteen semester hours per semester. Students who have an average academic standing may register for a maximum of eighteen semester hours credit per semester. Students who attain a "B" average are permitted to earn up to twenty-one semester hours per semester. Exceptions must be approved by the Vice President for Academic Affairs.

The maximum load in the May interim is three semester hours. The maximum load in each summer term is six semester hours. Students whose cumulative grade point average is "B" or better may request permission from the Vice President for Academic Affairs to take seven hours during each regular summer term.

Class Attendance

1. Class attendance is required. Each student is responsible for all work from the first day of class and is expected to attend all meetings of the class for which he is registered. This is regarded as a matter of individual student responsibility.
2. All faculty members are expected to keep accurate records of class attendance.
3. Class absences due to circumstances beyond the control of the student will be excused by the teacher involved if the request is made within one week of return to campus. Class work or tests in these classes must be made up.
4. Class work and tests missed due to illness of a student can be made up only when the student presents the teacher with a valid excuse when he returns to class.
5. Class work and tests missed by the student while he is participating in an activity sponsored by Union College may be made up only when the faculty sponsor of such an activity signs the official absence list of students.

Withdrawal From Courses

A student is not automatically withdrawn when he stops attending a class. Official withdrawals are made only on forms provided by the Registrar's Office. It is the student's responsibility to complete this form, obtain the signatures needed, and return it to the Registrar's Office. Failure on the part of a student to follow this withdrawal procedure will result in a grade of "F" for the term.

Course Numbering System

Courses numbered 100 or 200 are intended primarily for lower division students and 300- and 400-level courses are generally reserved for upperclassmen. Freshmen or Sophomores desiring to enter 300- or 400-level courses should confer with the division chairperson involved for permission to enroll. 500-level courses are restricted to graduate students.

Courses with hyphenated numbers (101-102) are used when the first semester is prerequisite to the second.

Reserved Course Numbers

Some special numbers are reserved for specific types of courses or studies. They may be used in any department although they are not shown in the following pages under the specific listings.

001-099	Non-credit special interest courses.
181, 281, 381, 481,581	"Special Topics" courses — classes developed on a one-time or experimental basis, or a special innovative class.

282, 482, 582	Special workshops, credit or non-credit.
183, 283, 483, 583	Television courses through Kentucky Education Television Network.
184, 284, 384, 484	May interim courses not listed under a regular catalog number.
285, 485	Experiential Education — Study abroad, internships, cooperative work, experience and vocational work experience.
287, 487	Field Practicum in specialized areas.
495, 595	Independent Study — individual research on approved topics not found in traditional courses. May be repeated on different topics.

Special Notations

Each course description indicates the semester the course will be offered — (F) for Fall Semester, (S) for Spring Semester, and (Sum) for Summer Session.

Many regular year courses are offered in summer sessions but are not guaranteed offerings.

Courses indicated as being offered in "Even Years Only" are offered on an alternate year basis in academic years *beginning* with even numbers, such as 1978-79. "Odd Years Only" courses are offered on an alternate year basis in academic years *beginning* with odd numbers, such as 1979-80.

Students should consult regularly with their advisors to ensure proper progress toward their degree. In the junior year, a curriculum plan will be done by the Registrar. This will indicate the courses the student has already completed toward the degree major on file in the Registrar's Office. Each student is responsible for completing all requirements.

The Grading System and Quality Points

Marks are reported in letters as follows:

A — Represents distinctly superior work, valued at four quality points for each semester hour.

B — Represents above average work, valued at three quality points for each semester hour.

C — Represents average work, valued at two quality points for each semester hour.

Cr — Indicates that a course has been passed satisfactorily.

D — Represents inferior but passing work, valued at one quality point.

F — Indicates failure with 0 credits and 0 quality points for each semester hour or failure to officially withdraw from a course.

NP — Indicates Course In Progress - For Developmental studies courses only.

The "NP" is given for the student who is still in the process of mastering the skills in the developmental course(s) the "in progress" grade is given. This grade does not negatively affect the GPA as an "F" does. The student must register for the course the next enrolled semester or the "NP" becomes an "F". The "NP" is used only in developmental courses when students are showing satisfactory progress in mastering the content of the course.

W — Indicates that a student withdrew during the first 12 weeks of the semester.

I — Indicates that in the opinion of the instructor the student has not been able to complete the required work of the course on time due to unavoidable circumstances.

An "I" received at the end of any semester must be removed before the end of the next semester if the student is enrolled for that term. If the student is not enrolled, the "I" must be removed before the end of the 12 month period following the date on which the "I" was received. Any exceptions to the time limit must be made by agreement of the instructor, division chairperson, and Registrar. If an "I" is not removed within that time limit, it remains on the permanent record and cannot be made up.

Quality Point Standing

The quality point standing of a student is determined by dividing the total quality points which he has earned by the total number of semester hours for which he has registered minus the number of hours of Credit and Incomplete on his record.

Classification of Students

Freshman	less than 32 semester hours
Sophomore	32 semester hours
Junior	64 semester hours
Senior	96 semester hours

Credit/Fail Option

The purpose of the Credit/Fail option is to provide the opportunity for students to explore elective courses outside their area, major, or minor without engaging in competition with students specializing in those subjects and without jeopardizing their grade point average.

This option excludes all courses in the Liberal Education Core and any area, major, or minor. It is available only to those students with at least sophomore classification and those maintaining a 2.0 grade point average. This option is also available to transfer students of sophomore classification and who have completed at least twelve hours of satisfactory work at Union College.

This option allows that no more than fifteen semester hours may be applied toward graduation with a Bachelor's degree, no more than two courses per academic year (July through June), and only two courses in any single discipline. No more than nine hours may be applied toward graduation with an Associate degree.

A student must apply in the Registrar's Office for the Credit/Fail option by the last date identified in the current academic calendar to withdraw from a course with a grade of "W". It is a matter between the Office of the Registrar and the student. The information is not available to instructors except when the student communicates the same to the instructor. A grade of "D" or above will be recorded as CR and an "F" will be recorded as such.

Examinations and Reports of Marks

Examinations are held at the close of each semester. Tests are held at such times during each semester as the instructors may determine. Mid-semester and semester grades are reported by the instructors to the Registrar. Mid-semester grades are sent to the students' advisors as soon as possible, and students may obtain these grades from their advisors. Copies of final semester grades are mailed to the address designated by the student. Only final grades become a part of the student's permanent record.

Grade Appeal

Students are entitled to redress any grievances relative to grades. Please refer to the student handbook or contact the Office of Academic Affairs.

Honor Students

Union College recognizes excellent scholarship in three ways: The Dean's List, the Presidential Laureates, and graduation with honors.

The Dean's List is comprised of those students who have completed at least 12 hours of graded work with a 3.25 grade point average and no grades of "I" for the semester. This list is published after the fall and spring semesters.

Presidential Laureates are those students who meet all requirements for the Dean's List and achieve at least a 3.75 grade point average for two successive semesters with at least 12 hours of graded work and no grades of "I" in each semester. The two summer sessions may be counted as one of these semesters if the minimum hours have been earned. The list of students designated as Presidential Laureates is published after the fall and spring semester.

Appropriate certificates are given in recognition of both of these achievements, and graduation honors are noted on the diplomas of those receiving degrees with distinction (described on page 40 of this catalog).

Academic Probation and Suspension

Students falling below the following grade point average and corresponding minimum semester hours will be placed on Academic Probation:

Freshmen	1.80
Sophomores (32 hours)	1.90
Juniors (64 hours)	2.00
Seniors (96 hours)	2.00

Probationary students are closely monitored by the Admissions and Academic Standing

Committee of the College. Students who are on academic probation may be restricted as to courses taken, required to repeat courses in which low grades have been earned, lose Union College financial aid, or be suspended from the College.

A student admitted to the College on Academic Probation may have two semesters in which to meet the minimum academic standards. Failure to attain the required GPA at the end of these two semesters may result in suspension from the College. A letter of continued probation will be issued at the end of the first semester of the student's not meeting the minimum standards.

A student admitted to the College in good standing as a first-time freshman will receive notification of academic probation if the GPA is below the minimum required after the first semester. Notification of academic suspension may be sent to the student at the end of the second consecutive semester in which the cumulative GPA falls below the required minimum standard.

A student under academic suspension from Union College must sit out one semester before being considered for readmission. At the discretion of the Admissions and Academic Standing Committee, a student may be suspended for one full academic year. In order for a student to be readmitted to Union College, he/she must reapply through the Office of Admissions. Upon readmission, a student may be subject to restrictions as established by the Committee relative to number of hours allowed and the repeating of courses. Any student readmitted after suspension from Union may be placed on academic probation.

Academic Amnesty and Academic Failure

Academic amnesty may be granted for one term only. Students having received a grade point average (GPA) of less than 2.0 in a semester may apply in writing to the Registrar after having completed two consecutive full time semesters or twenty-four hours of part time work with a GPA of 2.0 or better. Twelve semester hours earned during the summer terms may be counted as one semester. Course titles and grades remain as previously recorded on the transcript and credit will be given for courses with grades of "C" or better. None of the grades in the semester for which academic amnesty is granted will be used in calculating the GPA. Transfer students bringing less than a 2.0 GPA or having received any form of academic amnesty at another institution do not quality for any amnesty option at Union. Students who receive amnesty will not be eligible for academic honors based on cumulative GPA.

Failure or quality point deficiencies in any course work done in residence cannot be removed by transfer credit, correspondence work or Independent Study.

Academic Honesty

Union College has a right to expect a high standard of academic integrity. Academic dishonesty such as plagiarism, collaboration, or cheating will not be tolerated. Examples of academic dishonesty may include:

1. Plagiarism - taking ideas, writings, etc., from another and presenting them as one's own.
2. Writing papers for other students.
3. Cheating (using illegal notes, copying, etc.) on examinations.
4. Unauthorized collaboration - unauthorized assistance with written or oral material.

Incidents of academic dishonesty will be dealt with by the individual professor, who may consult with the Department Head, Division Chair, or Vice President for Academic Affairs. Incidents of academic dishonesty will be reported in writing to the Office of Academic Affairs. Students have a right of appeal and are referred to the publication, **Union and You**, under the section "Academic Due Process".

The Instructor may impose one of the following penalties:

1. Administer another examination or outside assignment.
2. Assign a grade of "F" for the examination or outside assignment.
3. Assign a grade of "F" for the course, expelling the student from the course.

In severe or repeated incidences of academic dishonesty, the Vice President for Academic Affairs may suspend or expel a student from the college, after appropriate consultation.

Portfolio Development Program

The Portfolio Development Program is a program designed to accommodate non-traditional students who have not been to college before or who dropped out of college in previous years and would like to return. It is structured to make it possible for these students to earn academic credit for prior learning that has come from life/work experiences. Students must register for the initial course, Portfolio Development, in order to learn how to develop a portfolio document. For further information, contact the Director of Portfolio Development or the Office of Admissions.

College-Level Examination Program (CLEP)

Union College is a regional testing center for the College-Level Examination Program (CLEP). The CLEP tests provide college credit for material students have mastered through self-study or non-accredited classes. As an Open Testing Center, Union College administers CLEP exams the second week of August, October, February and April. Students must register and pay at least three weeks in advance allowing the Testing Center time to order and receive the tests. The fee for the test is nonrefundable in the event the student decides not to take the exam.

By passing the CLEP examinations, degree-seeking students enrolled at Union College can earn up to 30 semester hours of credit toward a four-year program; 15 hours may be earned toward a two-year program. High school special students, and other special students, are not eligible. Credit may not be earned, through CLEP, for courses required for teacher certification by the Kentucky Department of Education. CLEP can not be utilized to make up a failed course.

Exams in the general battery must be taken before the student achieves sophomore status. Further information is available in the Office of Special Programs.

Credit By Examination

1. The student will apply for credit by examination at the office of the Registrar. An initial screening interview will be conducted and the division chairperson and appropriate faculty member will be consulted to determine if an evaluation seems feasible.
2. If an evaluation is feasible, the student will take a completed application form to the faculty member and arrange for an evaluation date. The faculty member will prepare an evaluation procedure, carry out the evaluation, and report the results to the Registrar.
3. Reported results will include a recommendation as to whether or not credit should be awarded and a description of the evaluation procedure and student performance. This material will be maintained on file in the Instructor's Office.
4. The recommendation and evaluation description will be forwarded to the division chairperson or a designated representative for review. If the division representative does not concur, the faculty member, designated representative (if there is one), and the division chairperson will meet with the Vice President for Academic Affairs to seek a resolution.
5. Successful completion of a challenge examination will be reported to the Registrar by the Instructor and will be recorded as "Credit" on the transcript. An unsuccessful challenge will not be recorded.
6. Students enrolled in a course may request a challenge examination only within the period when a new course may be added.
7. Challenge examinations may not be used for developmental courses, to repeat a course, or remove an "F" from the transcript.

Independent Study and Experiential Education

Union offers to qualified students the opportunity to work independently to earn credit for graduation. This option is reserved primarily for Junior and Senior students who have indicated the academic maturity to be able to accomplish the requirements of the course.

Registration for either of these options is during the designated time period for registration of other courses. Deadlines for adding courses should be adhered to for Independent Study and Experiential Education. Forms can be obtained from the Registrar's Office.

Correspondence Courses

Any student planning to graduate from Union College must receive permission from the Registrar to register for correspondence courses.

Students applying for permission to earn correspondence credit must follow the same guidelines as stated for full-time students under "Course Load" on page 30. The stated number of hours will apply only for the semester or term in which the student registered.

Not more than six semester hours of correspondence work done in one academic year will be accepted by the College. Not more than six credit hours in a major may be completed by correspondence. Not more than sixteen semester hours of correspondence credit will be accepted toward a degree. Not more than six semester hours of correspondence may be accepted during the senior year.

Graduating seniors must complete any correspondence work needed for graduation at least four weeks before the date of Commencement. Failure or quality point deficiencies in any course done in residence cannot be removed by transfer credit, correspondence or Independent Study.

Transfer Credit for Union College Students

A student at Union College who wishes to take course work at another accredited college or university must obtain written permission from the Registrar before enrolling in the course. Union College students can not register for more than a total of seventeen semester hours per term, including all off campus courses, without the consent of the Vice President for Academic Affairs.

Failure or quality point deficiencies in any course work done at Union College can not be removed by transfer credit, correspondence or Independent Study. Transfer work does not affect your Union College GPA.

Students who have earned as many as sixty-one semester hours at Union College may transfer a maximum of six semester hours during their final twenty-four hours of baccalaureate work. Students who have earned fewer than sixty hours credit at Union College may transfer a maximum of six semester hours to Union during their final thirty-eight hours.

Associate degree students who have earned a minimum of thirty-two semester hours credit at Union College may transfer a maximum of six semester hours to Union during their final eighteen semester hours.

Transfer credits will be considered based on the following policy statement.

1. Transfer credits from other institutions will be evaluated on how closely they match the intent of a particular section of the Union College Liberal Education Core. The initial review will be conducted by the Office of the Registrar based on generally accepted practices, and in consultation with the appropriate division chair when questions arise.

2. Students who are denied equivalency credit for a course in the Union College Liberal Education Core, or a course required in a major, area of concentration, or minor will have the right to petition for approval. The petition will be made to the Registrar who will consult with the appropriate division chair. Division chairs supervising divisions with a departmental structure are expected to consult with the appropriate department head before making a recommendation to the Registrar.

3. The student will have the right to appeal the decision to the Vice President for Academic Affairs in the event that the initial petition is denied. The decision of the Vice President for Academic Affairs shall be binding, and may be made on the basis as an exception to a general rule due to special circumstances, or may be issued as a precedent to guide future transfer credit evaluations.

Assessment Day Activities

Union College has developed a plan of action related to on-going assessment of our academic programs as well as other aspects of our college community. This is a continuous program throughout the school year but much of the data collection will center around an Assessment Day, identified in the school calendar, where students are expected to participate. Since an on-going evaluation of college programs is important to the quality of our offerings and because the Southern Association of

Colleges and Schools requires some type of assessment program, this Assessment Day participation has been made a part of graduation requirements. Questions related to this program should be directed to the Director of Assessment or the Vice President for Academic Affairs.

Convocations

There are five convocations held at Union each year, Fall Convocation, Spring Convocation, Honors Convocation, and one other each semester. Attendance is required of all full time students for all convocations except Honors Convocation. If a student misses any of the required convocations they must state in writing the reason for missing to the Office of Academic Affairs. Alternate forms of make-up are available to the students and these are indicated in correspondence each semester. Failure to comply will result in a letter of non-compliance being placed in the students folder.

Graduation Requirements

Requirements for Graduation — Bachelor Degrees — Arts, Music, and Science.

The candidates must satisfy the following requirements:

1. Minimum of 128 semester hours, of which at least twenty-five percent (thirty-two semester hours) must be earned at Union College. Thirty-two of the last thirty-eight hours must be earned in residence at Union College. Students who have earned as many as sixty-one semester hours at Union College may graduate with eighteen of the last twenty-four hours earned in residence. At least thirty-nine semester hours must be in courses numbered 300 or above.

2. Quality point standing of 2.00 overall and at Union, and in all courses taken in the major or minor fields unless a specific department requires a higher GPA.

3. Completion of the Liberal Education Core.

4. The equivalent of 12 semester hours of a single foreign language not native to the student is required for the Bachelor of Arts Degree. Equivalency shall be determined by the successful completion of the second year of the language. Students with prior training in that language at the high-school level may be eligible for advanced placement in the sequence of courses and meet the requirement with fewer than twelve credit hours.

   Religion majors may substitute a year of Hebrew and a year of Greek for the language requirement for the Bachelor of Arts degree.

5. For the Bachelor of Science degree the student must meet all graduation requirements, including a major or area. A foreign language may or may not be required as determined by the individual discipline.

6. Completion of either:

   a. A major as determined by the faculty of the individual discipline.
      Majors are offered in: Accounting, Athletic Training, Biology, Business Administration, Business Education, Chemistry, Christian Education, Church Music, Computer Information Systems, Criminal Justice, Drama, Early Elementary Education, English, English with Journalism Emphasis, History, History and Political Science, Mathematics, Middle Grades Education, Music, Music and Business, Music Education, Office Administration, Philosophy/Religion, Physical Education, Physics, Psychology, Religion, Science Education, Secondary Education, Sociology, Special Education, and Sports Management.
      Minors are offered in: Accounting, Appalachian Studies, Athletic Training, Biology, Business Administration, Chemistry, Computer Information Systems, Computer Science, Criminal Justice, Drama, Economics, English, Environmental Studies, Health Education, History, Journalism, Marketing, Mathematics, Military Science, Music, Office Administration, Philosophy, Physics, Political Science, Psychology, Religion and Sociology.

   b. An area, the structure of which is determined by the faculty of the Division in which the area requirements are met.

Areas are offered in: English, History and Political Science, Mathematics-Physical Science, Science and Social Studies.

7. At least thirty-nine semester hours offered for graduation must be earned in junior and senior courses (300 or above); at least six semester hours 300 and above, earned at Union, must be included in any minor; at least twelve semester hours 300 and above (evenly distributed in the two fields if this is a combined major), earned at Union, must be included in a thirty-hour major; at least eighteen semester hours 300 and above earned at Union must be included in an area or fifty-four hour major.
8. Participation in annual Assessment Day testing activities is required each year of all senior students. Those with special problems may contact the Vice President for Academic Affairs for waiver.
9. Advice in arranging schedules and choosing courses is always given gladly; however, each student is responsible for completing all requirements.

Associate Degree — see specific program requirements

Combined Degrees

The bachelor degrees may be granted to students who have completed three years of work at Union College and one year of work in an accredited professional school with the following provisions:

1. The work in the professional school must continue the curriculum in which the student has been enrolled at Union College (pre-law, pre-dentistry, pre-medicine, etc.)
2. The student must have completed satisfactorily the minimum requirements for three years of pre-professional work at Union College (ninety-six semester hours with a quality-point standing of at least 2.00) and also the general college requirements for graduation, including the foreign language requirement if a B.A. is desired.
3. The student must have completed satisfactorily the minimum requirements for one year of study at the accredited professional school in which he is enrolled. The number of credits at the end of the four years of study must total at least 128 semester hours.

ACADEMIC RECORDS

Family Educational Rights and Privacy Act

The following policy is in accord with Kentucky Revised Statute 164.283, the Family Educational Rights and Privacy Act of 1974 (Public Law 93-380) as amended (Public Law 93-568), also known as the Buckley Amendment, and the regulations formulated by the U.S. Department of Education.

Union College provides eligible students or their parents, when applicable, with the opportunity to review the student's education records, to seek correction of information contained in these records, and to limit disclosure of information from the records.

Eligible students or their parents, when applicable, may file a complaint with the U.S. Department of Education if any of their rights under the Family Educational Rights and Privacy Act of 1974 have been violated. Information concerning the rights enumerated in this act, as well as information concerning complaint procedures, is available in the Registrar's Office.

The College will release directory information to the general public in response to a legitimate request unless the student concerned files a written request with the Registrar that such information be withheld from the public. (Directory information is defined as student name, address, classification, telephone number, dates of attendance, date and place of birth, degree(s) earned, previous educational institutions attended, and honors and awards received.)

The Privacy Act also prohibits the distribution of grades to parents or guardians without

a student's prior written consent, or a statement of dependency from parent or guardian when the student is a dependent as defined under the Internal Revenue Code.

Union College will, however, release records and accounts pertaining to veterans, as well as to other students, to appropriate U.S. government representatives. This exception to all other federal laws is found in Title 38 of the U.S. code, Section 1790(c).

Degrees with Distinction

Honors in Scholarship are recorded on the diplomas of the students earning them. There are three grades of honors designated respectively: *cum laude, magna cum laude,* and *summa cum laude.* These honors are conferred at graduation upon students who satisfy the following conditions of scholarship:

The honor of *cum laude* is awarded to those students who have earned an average standing of 3.5 overall and at Union.

The honor of *magna cum laude* is awarded to the students who have earned an average standing of 3.75 overall and at Union.

The honor of *summa cum laude* is awarded to those students who have earned an average standing of 3.9 overall and at Union.

Students coming from other colleges may receive honors on completing 61 semester hours of resident study and satisfying the conditions of the scholarship prescribed by the faculty, provided they also furnish such evidence of high scholarship in the institution from which they come as may, in the judgment of the faculty, entitle them to become candidates for honors under the regulations.

As a reward for excellence in scholarship and to promote diligence in study and encourage high ideals, the honorary scholastic fraternity of Iota Sigma Nu was founded on May 26, 1936. Membership is open upon election to:

(a) All who have met the requirements for graduation with honors.

(b) All students who have at least 74 hours with a 3.2 quality point standing or 100 hours with a 3.0 quality point standing and who have completed a minimum of two years (64 semester hours) in residence at Union College.

ACADEMIC SERVICES

Academic Advising Career Planning and Placement Services

Upon Admission to Union College, students will begin a process whereby career planners and faculty advisors assist them to articulate their career goals, to select academic courses of study appropriate to those goals, and to achieve suitable placement upon completion of their studies.

Academic Advising is considered to be one of the two most important tasks of the faculty—teaching being first. Each student will meet with an academic advisor on an individual basis in order to select courses for each semester. The advisor is also available to help each student learn how to use the resources at Union College and to find solutions to problems which the student might have.

Each student is assigned an academic advisor in his/her chosen field of study. Students who have not made a vocational or professional choice will also be assigned an academic advisor. Upon declaring a major, an advisor in that field will be assigned.

A Career Counselor is also available to assist students. Inventories, workshops, and individual sessions are used to help students in identifying areas of interest or study and work.

The Career Counselor also assists seniors in preparing a placement file and coordinates employment opportunities. This placement file is sent, at no cost, to prospective employers at the student's request.

Undecided Majors

Students who have not made a vocational or professional choice will be assigned an advisor. Once a choice is made, the student will be reassigned to a faculty advisor in the appropriate discipline.

Planned Curriculum

During the junior year, a curriculum plan will be done by the Registrar. This will indicate the courses the student has already completed toward the degree major on file in the Registrar's Office. This is an agreement between the College and the student. Once the curriculum plan has been completed, only changes approved by the Registrar are binding on the College.

Academic Resource Center

The Academic Resource Center (ARC) provides free services to Union College students in several academic support areas. Formerly known as The Learning Lab, the name has been changed to reflect the wide variety of services now available. Tutoring is available in a variety of subject areas in both upper and lower division classes. Students may work with a tutor to review for classes, refresh study skills, or prepare for professional examinations. Several academically challenging courses in the Union College curriculum offer Supplemental Instruction. Supplemental Instruction is a program provided by the ARC, which assigns one SI leader to each of those designated courses. Students can attend group study sessions that are held outside of the normal class meetings and receive assistance from the SI leader as well as from other students sharing the same class experience. Students may also work independently, using one of the many computer programs or study books available. The ARC serves the needs of Union College students with day hours Monday - Friday and evening hours Sunday - Thursday. Contact one of the trained tutors or the Assistant Director of Student Support Services in Centennial Hall, room 105, for more information.

Supplemental Instruction

Union College provides a student academic assistance program known as Supplemental Instruction (SI) that has proven to increase student academic performance and retention.

Each semester courses that have been deemed academically challenging are selected for SI. Student leaders who have previously excelled in the designated courses are selected by the instructors of the courses to attend each class session, take notes and participate in class discussions, and hold three study sessions each week outside of class. SI is introduced to the students the first day of class, so it is not viewed as remedial. Also, the sessions are composed of students with varying academic abilities which provide a support system within the group. The concept of collaborative learning in a relaxed atmosphere helps students develop and integrate effective learning and study strategies while mastering course content.

Computer Facilities

The College has a variety of computers available for student and faculty use, including an HP-3000 minicomputer, an AT&T Unix-based microcomputer and numerous microcomputer systems. Four microcomputer laboratories on campus are used for instruction and are available for student and faculty use when not being used for classes. Three are located in Centennial Hall. In room 200, IBM-compatible 386 microcomputers are available for general use approximately sixty-eight hours each week, including late afternoons and evenings — Monday through Friday — and weekends. A novell networked system provides numerous opportunities for computer users. In room 209 the Ray C. Hensley Business Simulation Center is located. The center contains microcomputers, a scanner, a laser printer and telecommunication capabilities. The Teagle Writing Lab is located in room 107. The laboratory is equipped with 20 Macintosh microcomputersand a laser printer that are used for writing courses and student use.

The fourth microcomputer laboratory is located in the Mahlon A. Miller Science Center and contains Apple IIe's and a terminal to the AT&T system.

The Computer Information Systems Program also operates the AT&T system. CIS majors have the opportunity to gain hands-on experience in the operation of this system. Additional microcomputers are available for use in other areas. A Macintosh and an Apple IIGS are used in the Learning Lab for tutoring and remedial instruction. An Apple IIGS is used by the Music Department in the teaching of its classes, and Apple IIe and an IBM PC are available for use in the various science laboratories.

Most administrative offices use microcomputers connected to the College's administrative minicomputer to assist them in their duties.

Developmental Studies

The Developmental Studies Program is designed to help students become more successful in their college studies. Through this program Union College has recognized that each entering student has different strengths and weaknesses. Some of the common weaknesses are in reading, writing, and math skills.

The College has developed mandatory courses for students who score

1. below 15 on the English section of the ACT or 350 on the verbal section of the SAT
2. below 9 on the Elementary Algebra subsection of the ACT or 350 on the quantitative section of the SAT
3. below 15 on the Reading section of the ACT or 350 on the verbal section of the SAT

Students who are not required to take the developmental courses listed below may elect to take one or more of them after consultation with their academic advisor.

The mandatory courses include the following three courses, each carrying 3 semester hours of credit:

1. **English 110, Developmental English** — is designed to provide development of college-level language skills and to prepare students for English 111.
2. **Mathematics 101, Pre-college Algebra** — is intended for students who need to improve their arithmetic and elementary algebra skills prior to taking other college mathematics courses or courses requiring quantitative reasoning.
3. **General Studies 101, College Reading** — is designed to help students increase their reading level to more effectively handle the reading requirement in college texts.

Adult and Community Education

Adult and Community Education at Union College provides courses, workshops, seminars, and lifelong learning experiences that satisfy a wide range of educational needs for adults. Through partnerships with community agencies, schools, business and industry, Union is able to emphasize the importance of lifelong learning while meeting specific needs of different segments of the community. Adults study for personal enrichment, to acquire new skills for career advancement, or to enjoy cultural or leisure activities. The close student-to-instructor rapport that characterizes Union College adds an exciting dimension to these learning experiences. Students may earn continuing education units for selected short courses and college credit for telecourses available through Kentucky Educational Television.

Union's comprehensive program begins to address the needs of the community by offering, in conjunction with the Council on Higher Education, a drop-out prevention program that couples college students with high school students on a tutoring/mentoring basis. Destination Graduation is a nationally recognized program. The Adult Literacy program, Adult Basic Education, and GED classes address adults who have not received their high school diplomas by enabling them to prepare for the GED. These programs operate in conjunction with the Office of Adult and Technical Education of the Workforce Development Cabinet. JOBS addresses the educational needs of adults through life skills training and job readiness training while Workplace Basic Skills works with business and industry to improve work-related educational needs of employed adults. These programs are also operated in conjunctionwith the Workforce Development Cabinet. The Community Education component addresses the process of lifelong learning and includes specific requested classes and the Elderhostel program.

Library and Learning Resource Center

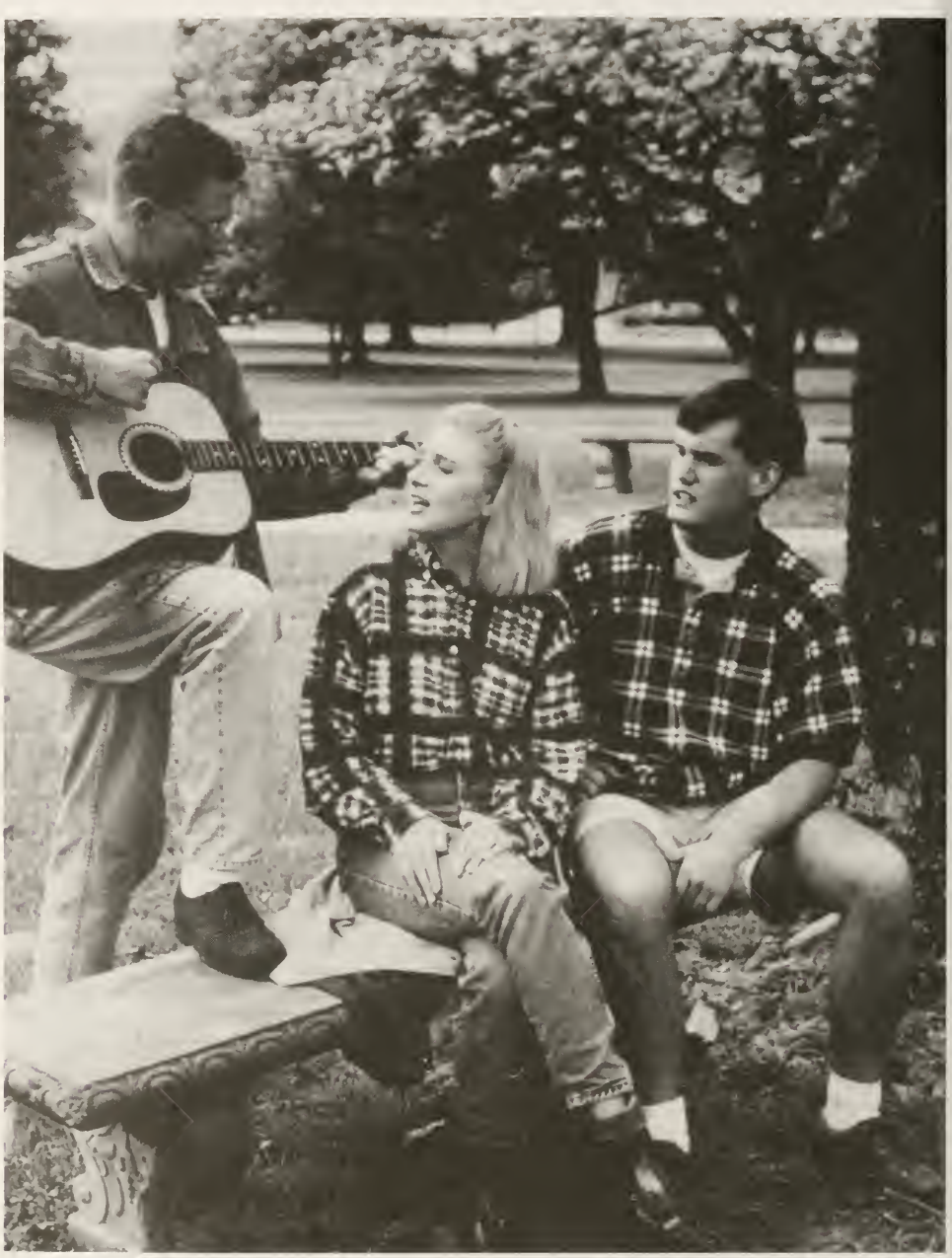
The Weeks-Townsend Memorial Library provides a variety of resources and services to support and enrich the College's academic programs. The library, located in the center of campus, houses a collection of more than 100,000 books, periodicals, government documents, audio-visual materials, and computer databases. These materials are accessible through the BiblioFile public access catalog. This automated catalog provides author, title, subject and keyword searching. The library can accommodate

over 300 persons in a variety of seating arrangements, including study carrels, tables, group settings and an audio-visual classroom.

The Learning Resource Center is housed within the Library and includes non-print media and audio-visual equipment. The equipment includes a satellite dish providing access to C-ban and Ku-ban satellite transmissions and a video editing system. The LRC provides educational media materials for classroom use and individualized study. The library staff offers individual and group instruction in the use of equipment and materials.

The Library contains several special collections. The most recently added collection is the Cumberland Gap Genealogy Collection, consisting of local genealogy and history information. Additional collections include the Lincoln-Civil War Collection, the Curriculum Collection, the Music Library and the Science Reading Room. The library also serves as the repository for the College Archives.

The Weeks-Townsend Memorial Library participates in state, regional, and national networks, including the Kentucky Library Network and Southeastern Library Network. The library staff is dedicated to providing members of the Union College community the information resources needed to meet their educational goals.



CURRICULUM

MAJORS AND DEGREE PROGRAMS

A college major is actually a means to an end — the means by which a student prepares for a future career, entrance into graduate school, or some change in life style. Union College offers a wide range of majors and minors, as part of the Bachelor's degree and a number of certificate and 2-year Associate degree programs for those not needing a full 4-year degree.

Degree Area	Major	Minor	Associate Degree	Area of Concentration	Program
APPLIED SCIENCE DIVISION					
Department of Business					
Accounting	X	X	X		
Business Administration	X	X	X		
Business Education	X				
Business and Music	X				
Computer Information Systems	X	X	X		
Economics		X			
Marketing		X			
Office Administration	X	X	X		
Department of Education					
Early Elementary Education	X		X		
Middle Grades Education	X				
Secondary Education	X				
Department of Health and Physical Education					
Athletic Training	X	X			
Health Education		X			
Physical Education	X				
Sports Management		X			
Military Science					X
HUMANITIES DIVISION					
Department of English, Journalism and Foreign Languages					
English	X	X		X	
English with a Journalism Emphasis	X	X			X
Journalism		X			
Department of Music and Fine Arts					
Church Music	X				
Drama	X	X			
Music	X	X			
Music and Business	X				
Music Education	X				
Department of Religion and Philosophy					
Christian Education	X				
Philosophy		X			
Philosophy/Religion	X				
Religion	X	X			

Degree Area	Major	Minor	Associate Degree	Area of Concentration	Program
NATURAL SCIENCE DIVISION					
Biology	X	X			
Chemistry	X	X			
Computer Science		X			
Environmental Studies		X			
Mathematics	X	X			
Physics	X	X			
Pre-Dentistry					X
Pre-Engineering					X
Pre-Medical Technology					X
Pre-Medicine					X
Pre-Optometry					X
Pre-Pharmacy					X
Pre-Physical Therapy					X
Pre-Veterinary Medicine					X
Science Education	X				
Mathematics-Physical Science				X	
Science				X	
SOCIAL SCIENCE DIVISION					
Appalachian Semester					X
Appalachian Studies		X			
Criminal Justice	X	X	X		
History	X	X			
History and Political Science	X				
Political Science		X			
Pre-Law					X
Psychology	X	X			
Social Studies				X	
Sociology	X	X			

GRADUATE, COOPERATIVE, AND INTERDISCIPLINARY PROGRAMS

Graduate Program in Education

Union College offers a unique graduate program designed for in-service teachers in the public schools. The College grants the 5th year certificate for Kentucky teachers and the M.A. degree in Education in the following areas: reading specialist, elementary education, middle school education, and secondary education with emphasis in either physical education/health, history, science, social science, psychology, sociology, or English.

Work beyond the Masters level leading to certification as an elementary or secondary school principal, supervisor of instruction, as well as Rank I (30 hours beyond M.A.) is available. Many courses are offered off-campus.

Qualified holders of the Bachelor's degree should contact the Dean of Graduate Academic Affairs for brochures, catalogs, and information about the graduate program.

Army ROTC

This is a program which provides college trained officers for the regular United States Army, U.S. Army Reserve and U.S. Army National Guard. Union College offers both the Basic and Advanced courses to qualified students. Advanced courses may be scheduled off campus. This program is affiliated with Eastern Kentucky University Army ROTC and specific information can be obtained by contacting the Chairperson of the Applied Science Division.

Concurrent Admissions Program (ConAP)

ConAP is a joint program of the Army and Servicemembers Opportunity Colleges to admit new soldiers into a college or university at the same time as they enlist in the Army.

Eligible soldiers are admitted, either on a full or provisional basis, with enrollment deferred until completion of active military service. Provisional admission means that the student may be required to take a reduced course load, to enroll in foundation courses, or to undergo other academic preparation. The student is subject to the college's requirements, as published in this catalog, at the time of enrollment in classes. The admission agreement is in effect for two years following completion of active military service.

Pre-Professional Programs

Union College offers several pre-professional programs that are affiliated with other institutions and agencies. These include Dentistry, Engineering, Medical Technology, Medicine, Optometry, Pharmacy, Physical Therapy, and Veterinary Medicine. College personnel are available in the Natural Science Division to advise and counsel students who are interested in these programs. More specific information can be obtained in the Natural Science Division section of this catalog.

Kentucky Institute for International Studies (KIIS)

Union College is a co-operating member of the Kentucky Institute for International Studies (KIIS). The college joins with other Kentucky colleges and universities to provide summer study opportunities in six different locations. The programs in France, Spain, Mexico, Germany, Austria, and Italy are open to all Union College students and provide courses which contribute to all of our educational programs.

Appalachian Studies

Reflecting the College's primary mission of improving the quality of life of the Appalachian people, Union offers a multi-faceted Appalachian Studies Program. One or more components of the program should be of interest to all students. The program seeks to develop an appreciation of the people, culture, and socio-economic conditions of the mountain area; to provide opportunities for direct service, research and personal experience in the region; to provide the skills and critical understanding needed to work in this area; and to help the students develop an understanding of themselves and others.

The program at present consists of an Appalachian Studies minor, the Appalachian Semester outlined in detail below, and of various academic courses, identified in appropriate departmental and division course listings. The student will find an interdisciplinary approach to the history, politics, music, natural resources, economics, and other aspects of the region, which will stand them in good stead no matter where they may live later.

Appalachian Semester

The Appalachian Semester is a unique interdisciplinary academic program in which sophomore, junior, and senior students from Union College and other institutions throughout the United States devote one full semester to studying the Appalachian region— its strengths, problems and challenges. Students earn a total of fifteen semester hours of academic credit, nine of which are for classroom work with the remaining six in field work in a variety of disciplines. Field work may be either experiential learning conducted in a local service agency or other institutional settings, or it may be directed study in a particular subject. Possible directed study subjects are oral histories, politics, religion, folklore, and environmental issues. The program is designed to combine classroom learning with first-hand knowledge gained through research or a practicum setting. As such, the purpose of the Semester is to promote a critical understanding of a distinct aspect of American society from an interdisciplinary approach.

Opportunities are provided to discuss regional issues with local scholars, politicians, and writers. Field trips are coordinated with seminar discussions in order to introduce participants with the unique components of Appalachian culture.

Course descriptions are included in the curriculum section of this catalog. The Appalachian Semester is offered every fall semester. Detailed information and application forms are available from the Director, Appalachian Semester, Union College.

THE LIBERAL EDUCATION CORE

I. BASIC COMPETENCIES — 12 hrs.

A. FRESHMAN COMPOSITION — 6 hrs.

ENGL 111 Freshman Composition I 3
ENGL 112 Freshman Composition II 3
ENGL 113 Honors Composition and Literature 3

B. MATHEMATICS — 3 hrs.

BHSC 245 Basic Statistics: Theory and Application 3
MATH 110 Applications of Mathematics for College Students 3
MATH 131 College Algebra 3
MATH 203 Mathematics for Elementary Teachers (K-4 majors only) 3

C. PHYSICAL WELL BEING — 3 hrs.

HLTH 131 First Aid and Safety Education 3
HLTH 270 Personal and Community Health 3

OR

Three Physical Education Activity Courses 3

II. HUMANITIES — 12-13 hrs.

A. LITERATURE — 3 hrs.

ENGL 212 Western Literature 3
ENGL 213 Honors Western Literature 3

B. FINE ARTS APPRECIATION — 3-4 hrs.

ART 132 Introduction to Art 3
ART 273 Art History 3
DRAM 131 Introduction to the Theatre 3
MUSIC 121 Introduction to Music 3
MUSIC 161 or 162 Foundations of Music 4

C. LITERATURE/FINE ARTS ELECTIVE — 3 hrs.

An additional course from B above or one of:
ENGL 221 or 222 Survey of English Literature 3
ENGL 231 or 232 Survey of American Literature 3

D. RELIGION AND PHILOSOPHY — 3 hrs.

PHIL 151 Introduction to Philosophy: Knowledge and Reality 3
RLGN 111 Old Testament History, Literature and Interpretation 3
RLGN 112 New Testament History, Literature and Interpretation 3
RLGN 131 World Religions 3

III. HISTORY, SOCIAL & BEHAVIORAL SCIENCES — 9 hrs.

A. WORLD HISTORY — 3 hrs.

HIST 111 World History to 1500 3
HIST 112 World History since 1500 3

B. HISTORY ELECTIVE — 3 hrs.

An additional course from A above or one of:
HIST 201 U.S. History to 1865 3
HIST 202 U.S. History since 1865 3

C. SOCIAL SCIENCE — STRUCTURE ELECTIVE — 3 hrs.

ANTH 221 Introduction to Cultural Anthropology 3
ECON 203 Principles of Macroeconomics 3
GEOG 101 Introduction to Geography 3
PLSC 101 American National Government 3
PSYH 111 Introduction to Psychology 3
SOCI 131 Introduction to Sociology 3

IV. NATURAL SCIENCES 7-8 hrs.

Choose two courses from areas A, B, or C; each of the courses must be in a separate area and one must include a lab.

A. BIOLOGICAL SCIENCE 3-4 hrs.

BIOL 109 Elements of Biology 3
BIOL 111 General Biology 4

B. PHYSICAL SCIENCE 3-4 hrs.

CHEM 101 Introductory General Chemistry 4
CHEM 111 General Chemistry 3
PHYS 111 Elements of General Physics 3
PHYS 112 Elements of General Physics 3

C. ENVIRONMENTAL/EARTH SCIENCE 3-4 hrs.

ENVS 101 Man and the Environment 3
ENVS 110 Physical Systems of the Environment 4
PHYS 105 Astronomy 4

D. LABORATORY EXPERIENCE 1 hr.

If not already included with a course in A, B, or C above.
BIOL 110 Elements of Biology Laboratory 1
(BIOL 109)
CHEM 131 General Chemistry Laboratory 1
(CHEM 111)
PHYS 113 Elements of General Physics Laboratory 1
(PHYS 111)
PHYS 114 Elements of General Physics Laboratory 1
(PHYS 112)

V. COMPLETION OF CORE 6-7 hrs.

Select a course from two of the following 3 areas.

A. COMMUNICATIONS/LANGUAGES 3 hrs.

FREN 111 or 112 Elementary French 3
GRMN 111 or 112 Elementary German 3
SPAN 111 or 112 Elementary Spanish 3
SPCH 131 Introduction to Speech Communication 3
SPCH 231 Oral Interpretation of Literature 3

B. SOCIAL SCIENCE — PROBLEMS ELECTIVES 3 hrs.

ECON 204 Principles of Microeconomics 3
GEOG 241 Geography of Appalachia 3
HIST 233 History of Appalachia 3
PLSC 231 International Politics 3
SOCI 241 Sociology of Appalachia 3
SOCI 251 Current Socio-Economic Problems 3
SOCI 271 Marriage and the Family 3

C. NATURAL SCIENCE 3-4 hrs.

Select a course from the Natural Science Division that is in a discipline (Biology, Chemistry, Environmental Studies, Physics) not already used to satisfy Section IV.

Students are expected to complete this core during their Freshman-Sophomore years. Some majors require specific courses. Consult your advisor.

ACADEMIC DIVISIONS

DIVISION OF APPLIED SCIENCES

Larry Inkster, *Chairperson*
Department of Business Department of Education
Department of Health & Physical Education
Military Science (ROTC Program)

I. DEPARTMENT OF BUSINESS

John W. Webster, *Department Head*
Accounting — Business Administration — Business Education
Computer Information Systems — Economics — Marketing — Office Administration

BACHELOR OF SCIENCE DEGREES IN BUSINESS

In addition to the general college requirements, all candidates for the Bachelor's degree must complete the following courses in one of the major fields listed below. Students with a major or minor in Business must have a 2.0 average for all courses in each major or minor. (Students who choose to complete the foreign language requirement may elect to receive a Bachelor of Arts degree.)

Common Courses Required of All Candidates		*Semester Hours*
ACTG 271, 272	Principles of Accounting I & II	6
BUAD 310	The Legal Environment of Business	3
BUAD 351	Principles of Finance	3
BUAD 352	Principles of Management	3
COMP 211	Introduction to Business Information Systems	3
ECON 203	Principles of Macroeconomics	3
ECON 204	Principles of Microeconomics	3
MKTG 321	Principles of Marketing	3
		27

and, as applicable:

Accounting Major		*Semester Hours*
ACTG 331	Cost Accounting	3
ACTG 371, 372	Intermediate Accounting I & II	6
ACTG 376	Tax Accounting	3
ACTG 431	Accounting Information Systems	3
ACTG 433	Auditing	3
ACTG 471, 472	Advanced Accounting I & II	6
COMP 241	Advanced Microcomputer Applications in Business	3
OFAD 302	Business Communications	3
	Accounting Electives (300 level or above)	3
		33

Business Administration Major		*Semester Hours*
BHSC 245	Basic Statistics: Theory and Application	3
BUAD 372	Personnel Management	3
BUAD 451	Business Policy	3
COMP 241	Advanced Microcomputer Applications in Business	3
OFAD 302	Business Communications	3
	Electives from the Department of Business (200 level and above)	12
		27

Computer Information Systems Major		Semester Hours
*BHSC 245 or	Basic Statistics: Theory and Application	3
*MATH 108 or	Intermediate Algebra	3
*MATH 131	College Algebra	3
*BHSC 245 if not used to satisfy Liberal Education Core, otherwise MATH 108 or 131.		
COMP 221, 222	Business Application Programming I and II	6
COMP 331 or	Structured Systems Analysis and Design	3
COMP 332	Object Oriented Analysis and Design	3
COMP 441	Databases	3
COMP 455	Applied Software Development Project	3
COMP 251 or	C Programming	3
COMP 241	Advanced Microcomputer Applications in Business	
	Computer Elective (300 or 400 level)	6
OFAD 302	Business Communications	3
		30

Office Administration Major		Semester Hours
BUAD 372	Personnel Management	3
COMP 241	Advanced Microcomputer Applications in Business	3
OFAD 222	Intermediate Keyboarding Applications	3
OFAD 262	Word Processing	3
OFAD 301	Business English: Theory and Applications	3
OFAD 302	Business Communications	3
OFAD 431	Office Systems	4
	Elective from the Department of Business (200 level or above)	3
	Elective from the Department of Business (300 level or above)	3
		28

Business and Music Major		Semester Hours
MKTG 272	Personal Selling	3
MUSC 161, 162	Foundations of Music	8
MUSC 261, 262	Harmony	6
MUSC 111-412	Applied Music	8
MUSC 322	Music History	3
MUSC 171, 172, 173, 175, 176	String, Woodwind, Piano, Brass and Percussion Classes (Choice of any 3)	3
OFAD 302	Business Communications	3
	Elective from the Department of Business (300 level or above)	3
	Field Placement	3-10
		40-47

BACHELOR OF SCIENCE DEGREE IN BUSINESS EDUCATION

Students should see the Education Department section for Certification Requirements.

The Comprehensive Business major will certify teachers to teach business courses in grades 5 through 12.

Teaching Major in Comprehensive Business		Semester Hours
ACTG 271, 272	Principles of Accounting I & II	6
BUAD 151	Introduction to Business	3
BUAD 310	The Legal Environment of Business	3
BUAD 352	Principles of Management	3
BUED 462	Methods of Teaching Comprehensive Business Subjects	4
COMP 211	Introduction to Business Information Systems	3
COMP 241	Advanced Microcomputer Applications in Business	3
ECON 203 or	Principles of Macroeconomics	3
ECON 204	Principles of Microeconomics	
EDUC 370	Curriculum Development of the Middle Grades	3
OFAD 222	Intermediate Keyboarding Applications	3
OFAD 262	Word Processing	3
OFAD 302	Business Communications	3
OFAD 431	Office Systems	4
		44

ENDORSEMENT FOR ADVANCED DATA PROCESSING

Students must complete all requirements for a major in Comprehensive Business and a total of nine semester hours of 200 level or above computer information systems courses, including at least three hours in a programming language.

ENDORSEMENT FOR SHORTHAND

Students must complete all requirements for a major in Comprehensive Business and six semester hours in shorthand.

ASSOCIATE OF APPLIED SCIENCE DEGREES IN BUSINESS

The following two-year programs lead to the award of the A.A.S. degrees in the emphasis indicated.

Common Courses Required of All Candidates		*Semester Hours*
ACTG 271	Principles of Accounting I	3
BUED 105	Mathematics Applied to Business	2
COMP 141	Introduction to Microcomputers and Applications	3
COMP 211	Introduction to Business Information Systems	3
ECON 203	Principles of Macroeconomics	3
ENGL 111	Freshman Composition I	3
ENGL 112	Freshman Composition and Literature	3
OFAD 302	Business Communications	3
	Humanities General Requirement	3
	Natural Science General Requirement	3
	Social Science General Requirement	3
		33

and, as applicable:

Accounting Emphasis (AAS)		*Semester Hours*
ACTG 272	Principles of Accounting II	3
BUAD 310	The Legal Environment of Business	3
COMP 241	Advanced Microcomputer Applications in Business	3
ECON 204	Principles of Microeconomics	3
	Accounting Electives (300 level or above)	12
	Non-Business Electives	6
		30

Business Administration Emphasis (AAS)		*Semester Hours*
ACTG 272	Principles of Accounting II	3
BUAD 310	The Legal Environment of Business	3
BUAD 352	Principles of Management	3
COMP 241	Advanced Microcomputer Applications in Business	3
ECON 204	Principles of Microeconomics	3
	Electives from the Department of Business (200 level or above)	3
	Non-Business Electives	6
		30

Computer Information Systems Emphasis (AAS)		*Semester Hours*
ACTG 272	Principles of Accounting II	3
BHSC 245	Basic Statistics: Theory and Application	3
COMP 221, 222	Business Application Programming I and II	3
COMP 241	Advanced Microcomputer Applications in Business	3
COMP 331	Structured Systems Analysis and Design	3
ECON 204	Principles of Microeconomics	3
MATH 108, 111 or 241	Mathematics Course	3 or 4
	Computer Elective (300 or 400 level)	3
	Non-Business Electives	6
		33-34

Office Administration Emphasis (AAS)		Semester Hours
ACTG 272	Principles of Accounting II	3
BUAD 352	Principles of Management	3
COMP 241	Advanced Microcomputer Applications in Business	3
OFAD 222	Intermediate Keyboarding Applications	6
OFAD 262	Word Processing	3
OFAD 301	Business English: Theory and Applications	3
OFAD 431	Office Systems	4
	Non-Business Electives	6
		28

MINORS AVAILABLE TO ALL STUDENTS

Accounting — Twenty-one semester hours in Accounting at 200 level and above.

Business Administration — Twenty-one semester hours consisting of the following: Accounting 271-272, Business Administration 310 and 352, Computer Information Systems 211, Economics 203, and three hours of Business electives (200 level or above).

Computer Information Systems — Twenty-one semester hours consisting of the following: Computer Information Systems 211, 221, 241, 331 and at least nine additional hours in Computer Information Systems courses numbered 200 or above (at least three of these hours must be numbered 300 or above).

Economics — Twenty-one semester hours consisting of the following: Economics 203, 204, Behavioral Sciences 245 or Mathematics 372, Computer Information Systems 141 or 241 or Mathematics 241, and three courses from the following list, only one of which may be below 300 level: Economics 252, 354, 363, 488, or History 241.

Marketing — Twenty-one semester hours consisting of the following: Marketing 272, 321, 370, and 421, Computer Information Systems 241, and Economics 203 and 204.

Office Administration — Twenty-two semester hours including Office Administration 222, 262, 301, 431, Business Administration 352, and at least six additional hours in Office Administration courses numbered 200 or above.

ACCOUNTING

Accounting 170. The Accounting Cycle. (S)(3)
This course is designed for students who have not studied accounting in high school or who need basic remedial studies in accounting. Subjects covered include journalizing, posting, worksheets, adjusting and closing entries. No prerequisites.

Accounting 271. Principles of Accounting I. (F)(3)
Discussion of the concept of double-entry accounting. Introduction to the basic procedures in the accounting cycle, receivables, payables, inventories and other systems.

Accounting 272. Principles of Accounting II. (S)(3)
A continuation of Accounting 271, this course covers accounting procedures relative to partnerships, corporations, budgets, costing and financial report generation. *Prerequisite:* Accounting 271.

Accounting 331. Cost Accounting. (F)(3)
Special topics in job order and process cost for materials, labor, and overhead with variable and fixed portions. Budgeting and variances from budget are also covered. *Prerequisite:* Accounting 272.

Accounting 371. Intermediate Accounting I. (F)(3)
Accounting topics include the income statement, balance sheet and change in owners' equity statements. Cash, receivables, inventories, plant, investments and intangible assets are also covered. *Prerequisite:* Accounting 272.

Accounting 372. Intermediate Accounting II. (S)(3)
Continuation of Accounting 371 covering current liabilities, contingent liabilities, long-term liabilities, accounting for income taxes, and owners' equity. Statement of Change in Financial Position, financial statement analysis and the impact of changing prices are also covered. *Prerequisite:* Accounting 371.

Accounting 376. Tax Accounting. **(S)(3)**
Problems of federal taxes for individuals, partnerships, and corporations are reviewed in depth. *Prerequisite:* Accounting 272.

Accounting 430. Accounting Theory. **(F)(3)**
Covers current accounting literature, including publications of the American Institute of Certified Public Accountants (AICPA), the Financial Accounting Standards Board (FASB), and the Securities and Exchange Commission (SEC). *Prerequisite:* Accounting 372.

Accounting 431. Accounting Information Systems. **(F)(3)**
This course studies the principles and problems of accounting system design and installation, organization for accounting control, internal control procedures, and internal reports. *Prerequisites:* Accounting 331 and 372.

Accounting 433. Auditing. **(S)(3)**
Topics covered include discussion of the ethics and liability of the auditor, verification, analysis, interpretation of accounting records, issuance of audit reports and other reports by CPA's. *Prerequisite:* Accounting 372.

Accounting 471. Advanced Accounting I. **(F)(3)**
Advanced in-depth discussion of accounting for joint ventures, consolidated statements, intercompany transactions, partnerships. *Prerequisite:* Accounting 372.

Accounting 472. Advanced Accounting II. **(S)(3)**
Continuation of Accounting 471 covering multi-national accounting, interim and segmental reporting, governmental and not-for-profit accounting, and insolvency. *Prerequisite:* Accounting 471.

Accounting 488. Business Seminar. **(on demand)(3)**
An advanced course of selected topics of interest in the field of Accounting. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses or permission of the instructor.

BUSINESS ADMINISTRATION

Business Administration 151. Introduction to Business. **(F)(3)**
Forms of business ownership, marketing, personnel management, finance, and government regulations are discussed in an overview of organizations.

Business Administration 310. The Legal Environment of Business. **(F,S)(3)**
An overview of traditional legal environment topics such as judicial reasoning, administrative law, anti-trust law, contracts, torts, agencies, bailment, real and personal property, leases, and bankruptcy.

Business Administration 351. Principles of Finance. **(F)(3)**
The principal objective of this course is to introduce managerial finance as a functional area of business, including financial analysis, working capital practices, capital budgeting, corporate valuation, cost of capital and capital structure. *Prerequisite:* Accounting 272.

Business Administration 352. Principles of Management. **(F)(3)**
This course introduces students to the development of organization plans and policies, as well as providing an exposure to basic theoretical developments in management thought over the last one hundred years. Particular attention will be given to the topics of organizational design, control, quantitative techniques of management operations and theories of leadership.

Business Administration 361. Corporate Financial Analysis. **(S)(3)**
An advanced financial case analysis course which will examine complex financial models and scenarios. This course will draw heavily upon the many financial concepts and theories covered in Business Administration 351, Principles of Finance. Topics will include: financial planning, networking capital financing, merger and acquisitions, and international managerial financial analysis. *Prerequisites:* Business Administration 351.

Business Administration 372. Personnel Management. **(S)(3)**
Using a system-process model, this course discusses the various subsystems (recruitment, selection, compensation, task specification, etc.) which fall under the responsibility of the personnel management function. The subsystems are designed to provide for the efficient and effective utilization of human resources in business concerns. *Prerequisite:* Business Administration 352.

Business Administration 440. Business Ethics. **(F)(3)**
Sensitizes students to the ethical implications of business activity and provides a theoretical framework within which responsible decisions can be made. The course relates the ethical considerations and legal principles to the corporations's responsibility to society. (May be used as an Accounting elective.)

Business Administration 451. Business Policy. **(S)(3)**
This course serves as a "capstone course" which attempts to bring together knowledge acquired in all of the functional areas of business (management, marketing, finance, accounting, etc.) in a case analysis situation. A strategic decision-making model will be presented as the basis for the alternative courses of action, and the implementation of the strategy chosen. *Prerequisites:* Senior status in the Business Administration program and the successful completion of Accounting 272, Business Administration 351, 352, and 372, and Marketing 321.

Business Administration 488. Business Seminar. **(on demand)(3)**
An advanced course of selected topics of interest in the field of Business Administration. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses.

BUSINESS EDUCATION

Business Education 105. Mathematics Applied to Business. **(F)(2)**
The application of basic mathematics to business operations including: Markups, markdowns, interest and discounts, bank reconciliation and graphing.

Business Education 462. Methods of Teaching Comprehensive Business Subjects. **(F)(4)**
A study of the methods, materials, and objectives in teaching comprehensive business subjects in the middle and secondary school. Discussion includes teaching strategies such as questioning, lecturing, problem-solving, constructing lesson objectives, constructing valid and reliable tests, interpreting test scores, and presenting lectures on video tape. *Prerequisites:* Admission to Teacher Education Program and Junior standing. Students must have at least twelve hours from the Union College Department of Business. Transfer students must have permission of the instructor to take this course.

Business Education 488. Business Seminar. **(on demand)(3)**
An advanced course of selected topics of interest in the field of Business Education. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses or permission of the instructor.

COMPUTER INFORMATION SYSTEMS

Computer Information Systems 121. BASIC Programming. **(F)(3)**
A study of the BASIC programming language including problem definition, flowcharting, and solving problems that are adaptable to business and/or science applications. Laboratory work designed to illustrate the basic principles of structured programming in BASIC will provide hands-on experience on microcomputers. *Prerequisites:* Business Education 105 or any Mathematics course numbered 108 or above.

Computer Information Systems 141. Introduction to Microcomputers and Applications. **(F,S)(3)**
A preliminary examination and evaluation of microcomputers and major applications, including the disk operating system, word processing, electronic spreadsheets, and database management.

Computer Information Systems 211. Introduction to Business Information Systems. **(F,S)(3)**
An introduction to information systems from a business perspective. Emphasis is placed on problem-solving skills, group dynamics, critical thinking, and the technological tools available to help solve today's business problems. The students will follow the information system development process through conception, design, and implementation. *Prerequisites:* Successful completion of Computer Information Systems 141 with a grade of "C" or better.

Computer Information Systems 221. Business Application Programming I. **(F)(3)**
A study of the fundamental principles of algorithm development and structured computer programming used in solving business information systems problems, including an introduction to design and implementation documentation used by industry. Major topics include control structures, elementary data structures, program design techniques, and sequential files. A subset of COBOL is used as the programming language. *Prerequisites:* Computer Information Systems 211 and one of the following: Mathematics 108 or 111 or Accounting 271.

Computer Information Systems 222. Business Application Programming II. **(S)(3)**
A continuation of Business Application Programming I. A study of systems of programs and the techniques for their design and development. Major topics include modular design of algorithms, uses of bulk storage devices, random files, master-file maintenance systems, advanced report writing and business algorithms, dynamic data structures, and subprograms. *Prerequisite:* Computer Information Systems 221.

Computer Information Systems 241. Advanced Microcomputer Applications in Business. **(F,S)(3)**
An advanced examination of applications available for microcomputers. Topics include the disk operating system, word processing, electronic spreadsheets, database management, graphics, electronic accounting, electronic presentations applications, and other applications, which will change as demands warrant. An assessment of the information needs of today's business executive and the role these applications play in meeting those information needs will be examined. *Prerequisite:* Successful completion of Computer Information Systems 141 with a grade of "C" or better. *Pre- or co-requisite:* Accounting 271.

Computer Information Systems 250. Scientific Programming. **(F)(3)**
A study of the fundamental principals of algorithm development and structured programming used to solve problems from the areas of mathematics, the physical sciences, and engineering, including an introduction to design and implementation documentation. Major topics are debugging, control structures, and elementary data structures. *Prerequisites:* Any programming language or Mathematics 241.

Computer Information Systems 251. C Programming. **(S)(3)**
A study of C programming language including problem definition, flowcharting, and the solution of problems that are adaptable to business applications. *Prerequisites:* Computer Information Systems 211 and one of the following: Mathematics 110 or 131 or Accounting 271.

Computer Information Systems 310. Introduction to Computer Architecture. **(S)(3)**
A study of the fundamental concepts and terminology of computer architecture (including assembly languages) with emphasis on the relationships among hardware, architecture, systems software, and applications software. *Prerequisite:* Computer Information Systems 221 or 250. (Even years only.)

Computer Information Systems 315. Operating Systems. **(S)(3)**
Survey of the major components of operating systems, comparing and contrasting various systems including batch, time sharing, and microcomputer systems. *Prerequisite:* Computer Information Systems 221 or 250. (Odd years only.)

Computer Information Systems 331. Structured System Analysis and Design. **(F)(3)**
A study of the system development life cycle emphasizing documentation and communication aids, interpersonal approaches and techniques used in the analysis and design of new systems for a given problem. Students are expected to be familiar with basic writing skills and application packages. *Prerequisites:* (Computer Information Systems 221 and Accounting 271) or (Computer Information Systems 250 and Chemistry 131 or Physics 213).

Computer Information Systems 332. Object Oriented Analysis and Design. **(F)(3)**
A study of the object-oriented approach to system development emphasizing documentation and communication aid, interpersonal approaches and techniques used in the analysis and design of new systems for a given problem. Students are expected to be familiar with basic writing skills and application packages. *Prerequisites:* (Computer Information Systems 221 and Accounting 271) or (Computer Information Systems 250 and Chemistry 131 or Physics 213). (Odd years only.)

Computer Information Systems 421. Software Engineering. **(S)(3)**
A study of the management and technical tools, procedures, and concepts used in creating software systems for specific application. Students will design and implement a software system. *Prerequisites:* Computer Information Systems 331 or 332. (Even years only.)

Computer Information Systems 441. Databases. **(S)(3)**
A study of software design in a data base environment, of data base systems, and of data base programming. A variety of hierarchical, network and relational data bases are studied. *Prerequisite:* Computer Information Systems 332. (Odd years only.)

Computer Information Systems 455. Applied Software Development Project. **(S)(3)**
A study of application system development and project management. Students will design and implement a comprehensive system to solve a complex case study. *Prerequisites:* Computer Information Systems 331 or 332.

Computer Information Systems 488. Business Seminar. **(on demand)(3)**
An advanced course of selected topics of interest in the field of Computer Information Systems. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses or permission of the instructor.

ECONOMICS

Economics 203. Principles of Macroeconomics. **(F)(3)**
The primary objective of this course is to introduce the student to macroeconomic theory including a study of the economizing problem, pure and mixed capitalism, demand and supply, the economic functions of government, national income accounting, the business cycle, employment theory, money and banking, and fiscal policy.

Economics 204. Principles of Microeconomics. **(S)(3)**
The primary objective of this course is to introduce the student to microeconomic theory, including demand and supply analysis, elasticity, the production function, price and output determination, costs of production, pricing and employment of resources, and market structures.

Economics 251. Environmental Economics. **(F)(3)**
Societal choice in the use of scarce resources is related to ecosystem survival, environmental quality, and human welfare. (Odd years only.)

Economics 354. Managerial Economics. **(F)(3)**
This course is designed to illustrate how business managers can utilize knowledge of economic principles to help make managerial decisions. Topics covered will include: market demand, empirical estimation of demand and/or supply, production and costs, decisions under uncertainty, organizational decisions and production decisions. *Prerequisites:* Economics 204 and Behavioral Science 245. (Even years only.)

Economics 363. Money and Banking. **(S)(3)**
Objectives of this course include introducing the student to the development of the commercial banking system, the Federal Reserve System, and further exploration of fiscal and monetary policy. *Prerequisite:* Economics 203. (Even years only.)

Economics 488. Business Seminar. **(S)(3)**
An advanced course of selected topics of interest in the field of Economics. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses or permission of the instructor. Note: More than one, with different titles, may be used to meet Economics minor requirements. (Even years only.)

Additional courses listed under: Behavioral Sciences 245 and History 241.

MARKETING

Marketing 272. Personal Selling. **(F)(3)**
The interpretation of sales techniques and methods, prospecting customers, interviews, sales presentations, demonstrations, and closing the sale are presented. (Formerly Business Administration 272)

Marketing 321. Principles of Marketing. **(S)(3)**
Study of the movement of goods from producer to consumer and an examination of the functions of the marketing process, marketing institutions, channels of distribution, legal aspects, and policy considerations. (Formerly Business Administration 321)

Marketing 370. Advertising. **(F)(3)**
An overview of the social, economic, and marketing environment in which advertising functions. This course will provide an in-depth coverage of advertising activities as they relate to consumer-driven mass media marketing activities. The course will focus on advertising planning and management as well as media strategies available to organizations. Although an understanding of marketing in general is helpful, Marketing 321 is not a prerequisite. (Formerly Business Administration 370)

Marketing 421. Business Logisitics. **(F)(3)**
This course is a study of the broad field of logistics. A major emphasis will be the regulatory environments of each of the major modes of transport: rail, motor, water, air, and pipeline. Emphasis will be placed on the crucial nature of distribution and handling of materials in domestic and international markets. A systems approach to transportation, warehousing, material handling, packaging, etc. will be followed. Although an understanding of Marketing in general is helpful, Marketing 321 is not a prerequisite. (Formerly Business Administration 421)

Marketing 488. Business Seminar. **(on demand)(3)**
An advanced course of selected topics of interest in the field of Marketing. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses.

OFFICE ADMINISTRATION

Office Administration 111. Elementary Keyboarding. **(on demand)(F,S)(3)**
A first course in keyboarding/typewriting for the business student. Also for those needing one course in typing for personal use. Keyboard and fundamental processes are presented. Students presenting one or more units of high school keyboarding/typewriting may not take this course.

Office Administration 121. Elementary Shorthand. **(on demand)(F)(3)**
Principles of Gregg Shorthand, Series 90. Places emphasis on theory and developing reading and writing skills. Letter transcription introduced. Students presenting one or more units of high school shorthand may not take this class. Laboratory required.

Office Administration 122. Intermediate Shorthand. **(on demand)(S)(3)**
Greater emphasis placed on writing and transcribing with speed and accuracy. Gregg theory and basic typewriting concepts reviewed. *Prerequisite:* Office Administration 222 with a grade of at least a "C" or the equivalent.

Office Administration 221. Dictation and Transcription. **(on demand)(3)**
Emphasis placed on speed in taking dictation and in transcription skills. *Prerequisite:* Office Administration 222 with a grade of at least "C" or the equivalent.

Office Administration 222. Intermediate Keyboarding Applications. **(F)(3)**
Emphasis is placed upon techniques, speed, and accuracy.

Office Administration 262. Word Processing. **(S)(3)**
This course is to strengthen students' use of computer software for performing tasks in a computerized office environment. Emphasis is placed on generating reports and documents used in different offices, such as: sales, accounting, legal, medical, government, and other technical offices. *Prerequisite:* Computer Information Systems 241.

Office Administration 301. Business English: Theory and Applications. **(F)(3)**
Comprehensive review of grammar and usage. Emphasizes and reinforces business applications and vocabulary in areas such as business law, word processing, merchandising management, and computer information systems. *Prerequisite:* English 111 with a grade of at least "C".

Office Administration 302. Business Communications. **(S)(3)**
Realistic methods of mastering writing skills needed in business situations. Emphasizes instruction in both the basic and advanced techniques of preparing and organizing business letters, memoranda, and reports. Also enhances speaking, reading and listening skills. *Prerequisite:* English 111 or Office Administration 301.

Office Administration 431. Office Systems. **(S)(4)**
Emphasis is placed on an information systems approach of office proficiency, records management, internal and external office communications, information processing and administrative support services. Laboratory required. *Prerequisite:* Office Administration 222.

Office Administration 488. Business Seminar. **(on demand)(3)**
An advanced course of selected topics of interest in the field of Office Administration. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses or permission of the instructor.

II. DEPARTMENT OF EDUCATION

Kenneth J. Henry, *Department Head*
Early Elementary Education — Middle Grades Education — Secondary Education

The undergraduate programs in the Department of Education have as their primary objective the preparation of superior teachers for public and private schools.

At Union College the education of prospective teachers is the responsibility of the College as a whole, not the Department of Education alone.

The teacher education programs described in the following pages prepare the student to receive a baccalaureate degree and, upon recommendation of the College, a Kentucky teacher's certificate.

A student who wishes to teach in a state other than Kentucky should determine certification requirements in that state (usually quite similar to Kentucky's), and plan his program accordingly. Information on certification requirements in other states is available in the Registrar's Office and in the Career Planning and Placement Office.

Students preparing for teacher certification must be admitted to the Teacher Education Program of the College before they will be allowed to register for any of the professional education courses other than Education 241, 242 and 351. Students intending to pursue education certification are urged to consult with faculty in the area of their academic emphasis, or academic major for advice on schedules and sequencing of courses.

Graduates may continue their professional preparation by entering the Graduate Studies Program. A separate catalog is available from the Dean of Graduate Academic Affairs.

Goals of the Teacher Education Program

The Teacher Education Program at Union College seeks to ensure the realization of the following outcomes by each student:

1. Professional Knowledge
   - develops a historical perspective of the development of American schooling
   - understands human growth and development
   - possesses knowledge of educational psychology/theories of learning
   - understands various instructional theories
   - has knowledge of special needs populations
   - understands the professional/ethical role of the teacher
   - develops a personal teaching philosophy
2. Professional Abilities
   - identifies and utilizes research to facilitate teaching
   - plans instruction
   - implements instruction
   - evaluates instruction
   - stimulates student learning
   - manages classroom effectively
   - maintains positive relations with students
   - maintains classroom discipline
   - maintains positive relations with colleagues, parents, and community
3. Professional Traits
   - practices appropriate personal/professional behavior
   - receptive to change/new ideas
   - willing to take risks/learns from successes and failures
   - strives for high levels of achievement
   - assumes multiple professional roles
   - seeks opportunities for professional growth
   - attends to special needs populations
   - values cultural diversity

Requirements for Admission to the Teacher Education Program

Students entering the Teacher Education Program must be approved by the Teacher Education Committee after completion of the following:

1. Completed application to the Teacher Education Program and an essay to validate writing proficiency.
2. A minimum composite score on the enhanced ACT of 21. Candidates who do not reach the minimum ACT score may be admitted on successful completion of (based on established minimum scores) each of the subtests of the CTBS. Successful completion of the CTBS at other institutions is acceptable.

3. Four recommendations from instructors.
4. Successful completion of an interview with College faculty to establish verbal communication proficiency.
5. Completion of at least 30 semester hours with a **minimum** 2.5 grade point average in all courses attempted.
6. Completion of English 111 and 112 with a minimum grade of "C" in each course.
7. Completion of Education 241 and 242 with a minimum grade of "C" in each course.

Students may retake any CTBS subtest(s) but must complete mandatory tutoring at the Academic Resource Center before re-taking the subtest(s).

Requirements for Admission to Student Teaching

Students must complete a formal application for student teaching by **mid-term** of the semester immediately preceeding the term in which they will student teach. Applications for admission to student teaching must be approved by the Teacher Education Committee based on the following:

1. Validation of writing proficiency.
2. Senior standing with at least 90 semester hours of credit with a **minimum** 2.5 grade point average in the area, major, minor, teaching fields, or academic emphasis.
3. Completion of at least three-fourths of all required professional education coursework with a **minimum** grade point average in these courses of 2.5.
4. Completion of at least three-fourths of all required coursework for the teaching field (area of concentration, major, teaching field, or academic emphasis) with a **minimum** grade point average of 2.5. Completion of all coursework for a teaching minor with a **minimum** 2.5 grade point average if student teaching is to be done in the minor field.
5. Recommendation by the department in which teaching certification is sought.
6. Moral, social, and ethical behavior that meets requirements of the College and the Kentucky Education Professional Standards Board.
7. Submission of a current (within the past six months) medical examination including a tuberculosis test.
8. Completion of institution prerequisites for time in residence and pre-student teaching field experiences.
   Note: Grades below "C" in professional education courses will **not** be accepted.

EARLY ELEMENTARY EDUCATION CURRICULUM

Early Elementary Education (K-4) majors need both a biological and a physical science course; each must include a laboratory. Appropriate NTE test(s) must be successfully completed for certification.

I. Preprofessional Courses for Students Preparing to Teach Early Elementary Education (K-4). Preprofessional courses may not be taken by Independent Study.

A. Anthropology 221 or Anthropology 251 or Political Science 231 ..... 3 semester hours

B. Art 271 — Elementary School Art ..... 3 semester hours

C. Computer Information Systems 141 — Introduction to Microcomputers and Applications ..... 3 semester hours

D. English 355 — Children's and Adolescent Literature ..... 3 semester hours

E. Mathematics 203 and 204 — Structure of the Number System ..... 6 semester hours

F. Music 373 — Elementary School Music ..... 3 semester hours

G. Physical Education 261 — Physical Education in the Elementary School ..... 3 semester hours

H. Physical Education Service Course ..... 1 semester hour

I. Psychology 111 — Introduction to Psychology..... 3 semester hours

J. Sociology 241 or Geography 241 or History 233..... 3 semester hours

K. Speech 131 — Introduction to Speech Communication ..... 3 semester hours

II. Professional Preparation. The following requirements may not be met by CLEP, Independent Study, or the Pass/Fail option.

A. Education 241 — Introduction to Education..... 3 semester hours

B. Education 242 — Early Involvement Internship..... 3 semester hours

C. Education 341 — Methods of Teaching Mathematics in the Elementary School..... 3 semester hours
(Prerequisites: Mathematics 203 and 204)

D. Education 342 — Teaching Science in the Elementary Grades..... 3 semester hours

E. Education 351 — Human Growth and Development..... 3 semester hours
(Prerequisite: Psychology 111)

F. Education 361 — Reading in the Primary Grades ..... 3 semester hours

G. Education 362 — Teaching Reading in the Content Subjects ..... 3 semester hours
(Prerequisite: Education 361 or permission of the instructor)

H. Education 432 — Methods and Materials in the Elementary School..... 4 semester hours

I. Education 433 — Supervised Student Teaching in the Elementary School..... 12 semester hours
(180 hours in one grade level and 180 hours in a non-consecutive grade level)

J. Education 441 — Elementary School Social Studies ..... 3 semester hours

K. Education 460 — Learning Theories for Educators ..... 3 semester hours
(Prerequisite: Psychology 111)

L. Education 488 — Professional Interaction in the Schools..... 3 semester hours

M. Special Education 201 — Survey of Exceptionalities..... 3 semester hours
(Prerequisite: Psychology 111)
See Requirements for Admission to Student Teaching

III. Academic Emphasis
The academic emphasis component must include twenty-one semester hours in one of the following six options.

A. ENGLISH/COMMUNICATIONS:
English 111, 112, 212, 221 or 222 or 231 or 232, 355 and 401 or 421; Speech 131

B. FINE ARTS/HUMANITIES:
Art 271, 273, Music 373, two of the following: Art 132, Drama 131 and Music 121; one elective in Religion or Music numbered 300 or above (3 hrs); and Religion 111 or 112 or 231

C. FOREIGN LANGUAGE:
German 111, 112, 211, 212, 331, 495, Independent Study (6 hrs); OR French 111, 112, 211, 212, 331 and 495 Independent Study (6 hrs)

D. MATHEMATICS STUDIES:
Mathematics 131, 203, 204, 211, 301, Computer Information Systems 121, one elective in Mathematics (3 hrs)

E. SCIENCES:
Biology 111, 232 or 233 or 330 or 331, General Science 471, Environmental Studies 350, Physics 105, 111 and 113 or 112 and 114 or Chemistry 111 and 131

F. SOCIAL AND BEHAVIORAL SCIENCES:
Geography 101, Economics 203 or 204, Political Science 101 or 231, History 201 or 202, Anthropology 221 or Sociology 131; and two electives numbered 200 or above in History or Sociology or Psychology (not to include Psychology 361)

G. SPECIAL EDUCATION: Learning and Behavior Disorders K-12 (27 semester hours)
Special Education 201, 203, 301, 303, 305, 307, 401, 403 and 405

MIDDLE GRADES EDUCATION CURRICULUM

Middle Grade (5-8) majors need at least three hours each of a biological and a physical science; one must include a laboratory. Appropriate NTE test(s) must be successfully completed for certification.

I. Preprofessional Course Requirements for Students Preparing to Teach in the Middle Grades (5-8). No Preprofessional Course may be taken by Independent Study.

A. Health 270 — Personal and Community Health ..... 3 semester hours

B. Physical Education Service Course ..... 1 semester hour

C. Psychology 111 — Introduction to Psychology..... 3 semester hours

D. Sociology 241 or Geography 241 or History 233..... 3 semester hours

E. Speech 131 — Introduction to Speech Communication ..... 3 semester hours

II. Professional Preparation for Middle Grades Teachers (5-8)
These requirements may not be satisfied by CLEP, Independent Study or the Pass/Fail option.

A. Education 241 — Introduction to Education..... 3 semester hours

B. Education 242 — Early Involvement Internship..... 3 semester hours

C. Education 361 — Reading in the Primary Grades ..... 3 semester hours

D. Education 362 — Teaching Reading in the Content Subjects ..... 3 semester hours
(Prerequisite: Education 361)

E. Education 443 — Supervised Student Teaching in the Middle Grades ..... 12 semester hours

F. Education 460 — Learning Theories for Educators ..... 3 semester hours
(Prerequisite: Psychology 111)

G. Education 488 — Professional Interaction in the Schools..... 3 semester hours

H. Special Education 201 — Survey of Exceptionalities ..... 3 semester hours
(Prerequisite: Psychology 111)

See Requirements for Admission to Student Teaching

III. Specialization Component
These requirements may not be satisfied by CLEP, Independent Study or the Pass/Fail option.

A. Education 352 — Human Growth and Development in the Middle Grades ..... 3 semester hours
(Prerequisite: Psychology 111)

B. Education 370 — Curriculum Development for the Middle Grades ... 3 semester hours

C. Education 436 — Methods and Materials for the Middle Grades..... 4 semester hours
(Prerequisite: All 200-and 300-level courses listed under Professional Requirements and Professional Preparation)

See Requirements for Admission to Student Teaching

IV. Teaching Fields
(Each student will complete a minimum of 24 semester hours in two fields of study.)

A. ENGLISH AND COMMUNICATION:
English 111, 112, 231 or 232, 355, 401 or 421, 311 or 402, Speech 131, and one English Elective (3 hrs)

B. SCIENCE:
Biology 111, 233 or 321, and 232 or 330; Physics 111 and 113, or 211 and 213; Chemistry 101 or 111 and 131; Environmental Studies 110; One of the following sequences of courses: Physics 112, 114 and a physics elective (not to include Physics 105, 212 and 214); Chemistry 112, 132, and a chemistry elective; or Physics 105 and Environmental Studies 350

C. SOCIAL STUDIES:
History 111, 112, 201, 202, Political Science 101 or 110, Geography 101, Economics 203 or 204, Sociology 131 or Anthropology 221

D. MATH OPTION I:
Mathematics 110, 203, 204, 241, 301, 331, Computer Information Systems 121, and one mathematics elective.

E. MATH OPTION II:
A minor in mathematics plus Mathematics 203 and 204.

F. SPECIAL EDUCATION Learning and Behavior Disorders K-12 (27 semester hours):
Special Education 201, 203, 301, 303, 305, 307, 401, 403, and 405

SECONDARY EDUCATION CURRICULUM

Union College offers a variety of certification areas for secondary students. Certification for grades 9-12 includes the following:

A.	Areas of Concentration:	English, Mathematics-Physical Science, Science, and Social Studies
B.	Teaching Majors:	Biology, Chemistry, Comprehensive Business, English, History, History and Political Science, Mathematics, Physical Education, Physics, and Sociology
C.	Teaching Minors:	Biology, Chemistry, Drama, English, Health, History, Mathematics, Physics, Psychology, and Sociology

In order to be eligible for certification in a Teaching Minor, Secondary Majors must also be eligible for certification in an Area of Concentration or a Teaching Major. See appropriate catalog listings for academic requirements for each of the Areas of Concentration, Teaching Majors and Teaching Minors. Secondary Majors (9-12) need at least three hours each of a Biological and a Physical Science; one must include a lab. Appropriate NTE test(s) must be successfully completed for certification.

I. Preprofessional Course Requirements for Students Preparing to Teach in the Secondary School (9-12). No Preprofessional Course may be taken by Independent Study.

A. Geography 241 or History 233 or Sociology 241 ..... 3 semester hours

B. Health 270 — Personal and Community Health ..... 3 semester hours

C. Physical Education Service Course ..... 1 semester hour

D. Psychology 111 — Introduction to Psychology ..... 3 semester hours

E. Speech 131 — Introduction to Speech Communications ..... 3 semester hours

II. Professional Preparation for Secondary Teachers (9-12). These requirements may not be satisfied by CLEP, Independent Study or the Pass/Fail option. A grade point average of 2.5 is required and no grade below a "C" is acceptable.

A. Education 241 — Introduction to Education ..... 3 semester hours

B. Education 242 — Early Involvement Internship ..... 3 semester hours

C. Education 351 — Human Growth and Development ..... 3 semester hours

D. Education 452 — Methods and Materials in the Secondary School .... 4 semester hours

E. Education 453 — Supervised Student Teaching in the Secondary School ..... 12 semester hours

F. Education 460 — Learning Theories for Educators ..... 3 semester hours
(*Prerequisite:* Psychology 111)

G. Education 488 — Professional Interaction in the Schools ..... 3 semester hours

H. Special Education 201 — Survey of Exceptionalities ..... 3 semester hours
(*Prerequisites:* Education 241 and 242)

See Requirements for Admission to Student Teaching.

SPECIAL EDUCATION CURRICULUM

Early Elementary Education majors with an academic emphasis in special education (learning and behavior disorders) will be certified for regular classroom teaching K-4 and endorsed for special education (learning and behavior disorders) K-12. Middle grades majors with a teaching field in special education will be certified in one academic teaching field (e.g., social studies) and in special education (learning and behavior disorders) K-12. Appropriate NTE test(s) must be successfully completed for certification.

Professional Preparation for Early Elementary Education Majors with an academic emphasis in Special Education and Middle Grades Education Majors with a Teaching Field in Special Education. These requirements may not be satisfied by CLEP, Independent Study, or the Pass/Fail option.

A. Special Education 201 — Survey of Exceptionalities ..... 3 semester hours

B. Special Education 203 — Theories of Behavioral Management..... 3 semester hours

C. Special Education 301 — Assessment of Exceptional Learners ..... 3 semester hours

D. Special Education 303 — Prescriptive Programming for Exceptional Learners..... 3 semester hours

E. Special Education 305 — Methods and Materials in Special Education ..... 3 semester hours

F. Special Education 307 — Field Experiences in Special Education ..... 3 semester hours

G. Special Education 401 — Early Childhood Programs for Exceptional Learners..... 3 semester hours

H. Special Education 403 — Career Education for Exceptional Learners.. 3 semester hours

I. Special Education 405 — Programs and Services for Exceptional Learners..... 3 semester hours

ASSOCIATE OF APPLIED SCIENCE IN EDUCATION*

Credit Hours

English 111 and 112 — Freshman Composition.....6
Natural Science (Environmental Studies 101 recommended) 4
Sociology 131 — Introduction to Sociology
or 3
Sociology 421 — Rural and Urban Sociology
Psychology 111 — Introduction to Psychology 3
Humanities Requirement (speech or theatre recommended) 3
Art 271 — Elementary School Art.....3
Music 373 — Elementary School Music.....3
Education 241 — Introduction to Education 3
Education 351 — Human Growth and Development.....3
Education 440 — Early Childhood Education 3
English 355 — Children's and Adolescent Literature.....3
Health 270 — Personal and Community Health.....3
Sociology 371 — Social Institutions 3
Health 361 — Principles of Nutrition.....3
Special Education 201 — Survey of Exceptionalities 3
Supervised Experience in Early Childhood Education.....3
Electives — Recommended from Appalachian Semester,
Kentucky History, Typing, Recreational Leadership, ...12
Arts & Crafts, & Structure of Number Systems

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ASSOCIATE OF APPLIED SCIENCE FOR GRADUATES OF STATE VOCATIONAL SCHOOLS

Union College offers a program at the associate degree level for students who have earned a diploma from a state vocational school. It is possible to earn up to twenty-four hours of credit toward an associate degree.

	Credit Hours
English 111 – Freshman Composition I	3
English 112 – Freshman Composition and Literature	3
Psychology 111 – Introduction to Psychology	3
Speech 131 – Introduction to Speech Communications	3
Natural Science Core Requirement	4
Social Science Core Requirement	3
Humanities Core Requirement	3
Credit for Vocational Block	up to 24
Credits toward specific degree goal	20

*Designed for those who work in day care centers and agencies dealing with small children where teacher certification is not required.

EDUCATION

Students may take 12 hours in Education courses prior to admission to the Teacher Education Program from among Education 241, 242, 351, 352, 460 and Special Education 201. After 12 hours have been completed, students must be unconditionally admitted to Teacher Education before registering for any further Education courses.

Education 241. Introduction to Education. (F,S)(3)
Explores the purposes, functions, and aims of education. Students are taken on an exploration of various topics including: teaching as a profession, historical and philosophical foundations of education, the theories and influences of great education thinkers, legal aspects of education, and the funding and structure of school programs.

Education 242. Early Involvement Internship. (F,S)(3)
A practical course in which students are assigned to a local school classroom and meet periodically to discuss and generalize their experiences. Acquiring competence in the following: observation, diagnosis, instructional design and planning, use of media and new technology. To be taken concurrently with Education 241. A $15.00 fee is charged. (46 hours of field experience is required.

Education 351. Human Growth and Development. (F,S)(3)
This course focuses on basic concepts from human development from conception to death. *Prerequisite:* Psychology 111.

Education 341. Methods of Teaching Mathematics in Elementary School. (F,S)(3)
Modern methods and materials for teaching mathematics in the elementary school. *Prerequisite:* Mathematics 203-204.

Education 342. Teaching Science in the Elementary Grades. (F)(3)
The student will examine science curriculum materials and activities in terms of Piaget's developmental stages. Topics will be identified that could be taught using experimental, inquiry, or discovery methods. Lesson plans will be developed using each of the three methods and activities constructed.

Education 352. Human Growth and Development in the Middle Grades. (S)(3)
This course focuses on the physical, intellectual, personal, social and moral development of children in fourth through the eighth grades, ages 10-13. Socializing influences such as families, peers, school and mass media will also be included.

Education 361. Reading in the Primary Grades. (F,S)(3)
Basic principles, techniques, and materials for the teaching of reading in the primary grades; emphasis on Methods and Materials which provide for developmental and differentiates instruction. Includes observation, micro-teaching demonstrations, making of lesson plans, and evaluation of a child's readiness. (10 hours of field experience required.)

Education 362. Teaching Reading in the Content Subjects. **(F,S)(3)**
Comprehension, study, and reference skills as they pertain to reading in the content subjects; emphasis on language arts and the reading-writing relationship. *Prerequisite:* Education 361 (except for English majors) or permission of the instructor.

Education 370. Curriculum Development for the Middle Grades. **(F)(3)**
This course involves tracing the history of curriculum development in the United States, as well as identifying trends in the curriculum of the middle school. It will include curriculum design, middle school terminology and techniques, social and cultural forces, political forces, programs, organization and evaluation.

Education 401. Introduction to Counseling and Guidance. **(Sum)(3)**
Educational, sociological, and psychological foundations of counseling and guidance in schools, colleges, and related service-oriented agencies. Essential counseling and guidance services, policies, practices and procedures. *Prerequisite:* Psychology 111.

Education 432. Methods and Materials in the Elementary School. **(F,S)(4)**
Emphasis on language arts and methods in the early elementary classroom. (15 hours of field experience required.)

Education 433. Supervised Student Teaching in the Elementary School. **(F,S)(12)**
Laboratory experiences in working with children, teachers, and others in school and community. Supervision by an experienced classroom teacher for a minimum of 12 weeks. Transportation and meals paid by the students. Application to be made one semester in advance. *Prerequisites:* See Requirements for Admission to Student Teaching. A supervisory fee of $100 is charged.

Education 436. Methods and Materials for the Middle Grades. **(F)(4)**
This course focuses on instructional strategies and materials needed for releasing the potential for the middle grade student leading from concrete to abstract learning. The course will include curriculum concepts and designs, innovative activities using hands-on-experiences, techniques of writing lesson plans, the development of a unit of work, materials for journal writing, class demonstrations and evaluation. (15 hours of field experience required.)

Education 440. Early Childhood Education. **(Sum)(3)**
Survey of the physical, emotional, mental, and psychological development of the child under six and the role of the kindergarten teachers in working with such a child.

Education 441. Elementary School Social Studies. **(F,S)(3)**
Methods and materials for the teaching of elementary school social studies, including kindergarten through eighth grade curricula. The philosophies, terminology, and evaluation of methods and materials will be included.

Education 443. Supervised Student Teaching in the Middle Grades. **(F,S)(12)**
Laboratory experiences in working with children, teachers, and others in school and community. Supervision by an experienced classroom teacher for a minimum of 12 weeks. Transportation and meals paid by the students. Application to be made one semester in advance. *Prerequisites:* See Requirements for Admission to Student Teaching. A supervisory fee of $100 is charged.

Education 452. Methods and Materials in the Secondary School. **(F,S)(4)**
Current teaching methods, materials, and innovations in the secondary school with directed observations. (25 hours field experience.)

Education 453. Supervised Student Teaching in the Secondary School. **(F,S)(12)**
Under the direction of an experienced teacher, the student directs the usual teaching activities in the classroom for a minimum of 12 weeks. Application should be made one full semester in advance of the time the teaching is to be done. *Prerequisite:* See Requirements for Admission to Student Teaching. A supervisory fee of $100 is charged.

Education 460. Learning Theories for Educators. **(F,S)(3)**
The major focus of this course is an exploration of how individuals learn, including specific learning theories and their relation to classroom teaching.

Education 468. Educational Media. **(Sum)(3)**
Practice in operating educational media and construction of classroom materials. Emphasis on educational television use in the classroom.

Education 488. Professional Interaction in the Schools. **(F,S)(3)**
Discusses the role of the professional teacher including professional values, school community relations, school finance and programs of the school, legal aspects and human interaction in the schools from a variety of perspectives and theories. Addresses the role of classroom management in the learning process.

Education 495. Independent Study. **(F,S)(3)**
Open only to advanced students in the field of Education who wish to do intensive reading in a specific interest area. *Prerequisite:* Twelve semester hours of Education and permission of the Head of the Department.

SPECIAL EDUCATION

Special Education 201. Survey of Exceptionalities. **(F,S,Sum)(3)**
An introductory course examining the characteristics, identification, diagnosis, and remediation procedures for use with exceptional children.

Special Education 203. Theories of Behavioral Management. **(S)(3)**
This course will help students develop competency in the application of psychological principles to the classroom setting. This will include classroom observation techniques, behavior management, task and concept analysis, and development of behavioral objectives. *Prerequisite:* Special Education 201.

Special Education 301. Assessment of Exceptional Learners. **(S)(3)**
A course through which students will develop understanding of the theory and competency in the practice of educational evaluation. Emphasis will be placed on testing practices most applicable for classroom teachers including use of criterion-referenced and norm-referenced testing, record keeping, and selection of appropriate instructional strategies. *Prerequisites:*Special Education 201, Special Education 203, and admission to the Teacher Education Program.

Special Education 303. Prescriptive Programming for Exceptional Learners. **(S)(3)**
This course will allow students to develop competency in teaching learners with a wide range of exceptionalities in the regular classroom. Principles of normalization, mainstreaming, and individualized instruction will be introduced. *Prerequisites:* Special Education 201, Special Education 203, and admission to the Teacher Education Program.

Special Education 305. Methods and Materials in Special Education. **(S)(3)**
This course will prepare students for selection, design, and evaluation of specialized teaching strategies and materials for specific instructional needs of pupils with varying behavioral and learning characteristics. *Prerequisites:* Special Education 201, Special Education 203, Special Education 301, Special Education 303, and admission to the Teacher Education Program.

Special Education 307. Field Experiences in Special Education. **(S)(3)**
A course devoted to field experiences in which students will develop and hone skills in providing resource help to exceptional children either in a resource room or in concert with a classroom teacher. Concurrent registration in Special Education 305 is required. *Prerequisites:* Special Education 201, Special Education 203, Special Education 301, Special Education 303, and admission to the Teacher Education Program.

Special Education 401. Early Childhood Programs for Exceptional Learners. **(F)(3)**
This course investigates guidance and needs of exceptional early childhood learners who are mildly to moderately disabled. *Prerequisites:* Completion of all 200 and 300 level Special Education courses and admission to the Teacher Education Program.

Special Education 403. Career Education for Exceptional Learners. **(F)(3)**
This course will investigate principles and practices of vocational guidance, the process of choosing a vocation, theories of vocational choice, sources and dissemination of occupational information. *Prerequisites:* Completion of all 200 and 300 level Special Education courses and admission to the Teacher Education Program.

Special Education 405. Programs and Services for Exceptional Learners. **(S)(3)**
A course designed to review the many types of services and program delivery systems available to exceptional learners and their families. Current legal requirements and ethical considerations involved with specific decisions of placement and programs are explored. *Prerequisites:* Completion of all 200 and 300 level Special Education courses and admission to the Teacher Education Program.

III. DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

Larry Inkster, *Department Head*
Athletic Training — Health — Physical Education — Sports Management

HEALTH

Students preparing to teach in Kentucky will receive both elementary and secondary certification by fulfilling the requirements of this program.

Requirements for a Minor in Health Education: Twenty-one semester hours which must include Health 131, 270, 311, 340, 361 or 461, and 475.

Health 131. First Aid and Safety Education. (S)(3)
Designed to aid the student in developing an understanding of the basic principles of accident prevention as applicable to the home, the highway, and the school. First aid measures for various injuries and illnesses are discussed and practiced.

Health 252. Mental Health. (F)(3)
Basic needs for mental and emotional health. Emphasis on curriculum content and teaching aspects of mental health, and a more thorough understanding by the prospective teacher of mental health issues including stress and lifestyle, gender differences, life/death decisions, suicide, and child abuse. (Even years only.)

Health 270. Personal and Community Health. (F)(3)
The relationship of bodily functions to personal health and grooming and to community and natural health.

Health 272. Drugs and Society. (S)(3)
The effect of drug use and abuse on the individual and society. Strategies for making intelligent decisions regarding drugs will be discussed. Drugs and the sporting society will also be included. (Odd years only.)

Health 311. Health Education —K-12. (S)(3)
The experiences, activities, and instruction of elementary and secondary students that lead to intelligent self-direction of health behavior.

Health 320. General School and Community Safety. (S)(3)
The review of principles and practices in establishing and maintaining a healthful and safe environment in the school, gymnasium, and playground.

Health 340. Physiology and Anatomy. (F)(3)
A study of cellular construction, tissues, organs, and systems of the human body. A study of the functions of these organs and systems as it deals with health and physical education discipline.

Health 361. Principles of Nutrition. (F)(3)
A study of the composition, nutritive value, and utilization of food.

Health 451. School and Community Health Workshop. (Sum)(3)
Reveals the relationship needed between the school and community to promote the total health of the population. Speakers are secured from official agencies, voluntary agencies, professional agencies, sponsored agencies, and other colleges. Small groups are utilized for discussion, field trips, and study through audio-visual aids.

Health 461. Nutrition for Special Needs. (S)(3)
A course focusing on the nutrition needs through the life cycle, energy metabolism, and therapeutic applications of nutrition.

Health 475. Critical Areas in Health. (F,Sum)(3)
Specific health problems confronting society today with particular reference to secondary age students.

Health 485. Field Experiences in Health. (F,Sum)(3-6)
A directed field experience in some phase of health, with consideration given to both the needs and interests of the student. Opportunities will be available for practical experiences in the school situation, official health agencies, and voluntary agencies.

Health 495. Independent Study. (F,Sum)(1-3)
Independent study for advanced students only.

PHYSICAL EDUCATION

Students preparing to teach in Kentucky will receive both elementary and secondary certification by fulfilling the requirements of this program.

Requirements for a Major in Physical Education: For those students desiring teaching certification, thirty-seven semester hours which must include Physical Education 241, 275, 340, 351, 360, 361, 410, 420, 421, 425, Health 340, and four service courses. Physical Education 261 and 461 are required but will not count toward the required 37 hour major.

For students not desiring teaching certification, thirty-seven semester hours are required which must include Physical Education 241, 321, 340, 351, 360, 361, 410, 420, 421, 425, Health 340, and four service courses.

A maximum of eight semester hours of service courses may be credited toward graduation. Physical education majors must take four service courses. This is the maximum that can be applied to a major, but others may be taken as electives. The following service courses also meet the elementary and secondary requirement for physical education.

Physical Education 111. Beginning Swimming (Non-swimmers only) (S,Sum)(1)

Physical Education 112. Intermediate Swimming. (S,Sum)(1)

Physical Education 121. Team Sports. (F)(1)

Physical Education 122. Volleyball. (F,S)(1)

Physical Education 132. Golf. (S)(1)

Physical Education 133. Tennis and Badminton. (S,Sum)(1)

Physical Education 134. Personal Fitness and Aerobic Activities. (F,S)(1)

Physical Education 136. Weight Training. (F)(1)

Professional Courses

Physical Education 241. History and Philosophy of Physical Education. (F)(3)
From primitive man through the present, with particular emphasis on Greek physical education, European systems, and development of physical education in North America. Some research into the history of various sports.

Physical Education 261. Physical Education in the Elementary School. (F)(3)
The role of the classroom teacher in physical education. Emphasis is placed on the application of game, movements, exploration, rhythms, and self testing. Included are screening procedures for the assessment of motor development.

Physical Education 271. Sports Officiating. (F)(3)
Rules and officiating techniques in football, basketball, baseball, and track. (Odd years only.)

Physical Education 275. Principles of Elementary Movement Forms. (F)(3)
An experience in discovering the principles behind basic movement forms at the elementary physical education level. Various movement theories and concepts will be explored and examined on the cognitive and kinesthetic bases.

Physical Education 301. Theories of Coaching Football. (F)(3)
The practical study of the game of football, as it applies to the coach and player. A study of the fundamental skills, principles, and concepts.

Physical Education 302. Coaching Men's and Women's Basketball. (F)(3)
(Even years only.)

Physical Education 304. Coaching Baseball and Softball. (F)(3)
(Even years only.)

Physical Education 321. Recreational Leadership. (S)(3)
Leadership techniques in music, social games, arts and crafts, dramatics, camping, nature, and sports. Designed to aid students in enriching their own leisure time and to prepare for leadership in teaching, full-time Christian service, and social service.

Physical Education 340. Motor Development. (F)(3)
An examination of an individual's motor development across the lifespan. Particular emphasis will be placed on the effect physical activity has on growth and development.

Physical Education 351. Tests and Measurements in Health and Physical Education. **(S)(3)**
Evaluating health and physical education by the construction and administration of tests. Emphasizes reliability, objectivity, validity of tests, and grading systems.

Physical Education 360. Sport in Society. **(S)(3)**
A study of sport as a social institution in contemporary North American society. Emphasis will be placed on sport and its relationship with education, youth, women, politics, racism, and professionalism.

Physical Education 361. Organization and Administration of Physical Education and Athletics. **(S)(3)**
Administration of physical education and athletic programs in schools, with special emphasis on philosophy and leadership styles. Includes budget and finance, office management, curriculum development, facilities, legal factors, and public relations.

Physical Education 410. Exercise Physiology. **(S)(3)**
The effects of exercise and physical activity on various systems of the human body. Laboratory activities included. (Even years only.)

Physical Education 420. Physical Education for the Exceptional Child. **(F)(3)**
Health conditions which require the physical education program to be adapted to meet the needs of individuals with handicapping conditions will be studied. Additional emphasis on national, state, and local agencies designed to help meet the needs of these individuals. Some work with a local, exceptional population may be required.

Physical Education 421. Kinesiology. **(S)(3)**
An analysis of human motion and its relation to athletic and gymnastic activities; practical application of these principles. (Odd years only.)

Physical Education 425. Psychological Foundations of Sport and Human Performance. **(F)(3)**
An introduction into the psychological realm of sport and physical activity and its relationship to other disciplines. The objective of this course is to enable students to understand and apply available information from sport psychology in order to make sport and physical activity a more productive and beneficial experience for the participants.

Physical Education 461. Physical Education in the Secondary School. **(F)(3)**
Topical areas such as philosophy, teacher certification, competencies, and professional activities will be covered. Curriculum construction, instructional methods, class management and techniques for teaching specific activities will be considered as they relate to the secondary level.

Physical Education 495. Independent Study. **(F,S,Sum)(3)**
Independent work for advanced students only.

ATHLETIC TRAINING

Requirements for a Major in Athletic Training: Fifty-eight hours which must include Athletic Training 101, 151, 201, 231, 232, 271, 321, 371, 372, 431, 432, 451, Health 131, 270, 272, 311, 340, 361, and Physical Education 351, 410, 421, and 425.

Completion of this major will not automatically certify the student as a qualified athletic trainer; the National Athletic Trainer's Association (NATA) examination will have to be passed. But, courses included in the major plus other courses such as statistics, psychology, and chemistry, already included in the Liberal Education Core, will prepare each student in areas necessary for successful completion of the (NATA) examination.

Athletic Training 101. Introduction to Athletic Training. **(F)(3)**
Practical study and evaluation of various methods of conditioning. Emphasis on preventive and protective measures, practical study involving basic principles of massage, bandaging, strapping, and first aid. Analysis of the instruction and operation of the training room.

Athletic Training 151. Athletic Training Practicum I. **(S)(1)**
This course expands on the various taping, wrapping, padding and splinting techniques used in the training room and on the fields of competition. *Prerequisite:* Athletic Training 101.

Athletic Training 201. Injury Recognition I. **(S)(3)**
This course will expand the aspects of Introduction to Athletic Training. Special emphasis will be placed on the evaluation of lower extremity injuries. *Prerequisite:* Athletic Training 101.

Athletic Training 231. Injury Recognition II. **(F)(3)**
Continued expansion of the prevention and care of athletic injuries with special emphasis placed on the evaluation of upper extremity injuries. *Prerequisite:* Athletic Training 201.

Athletic Training 232. Athletic Training Practicum II. (F)(1)
This course develops the skills needed in the recognition and treatment of emergency and life threatening situations. CPR certification will be obtained. *Prerequisite:* Athletic Training 151.

Athletic Training 271. Therapeutic Modalities. (S)(3)
This course focuses on the techniques, the indications, and the contraindications of therapeutic modalities in the clinical and athletic training setting. Use of electrical muscle stimulation, ultrasound, hydroculators, and thermal and cold modalities will be included. *Prerequisite:* Athletic Training 231.

Athletic Training 321. The Pediatric Athlete. (S)(3)
The special needs, concerns, and injuries of the young athlete. Topics include nutrition, training, medical care, growth plate and overuse injuries. (Even years only.)

Athletic Training 371. Therapeutic Rehabilitation. (S)(3)
The techniques of rehabilitation program development and the application of rehabilitation procedures of athletic injuries will be explored. Includes the proper application of isokinetic, isometric, and istonic equipment. *Prerequisite:* Athletic Training 231. (Odd years only.)

Athletic Training 372. Athletic Training Practicum III. (S)(1)
This course further explores and develops the knowledge of injury assessment, treatment, and rehabilitation of athletic injuries. *Prerequisite:* Athletic Training 232.

Athletic Training 431. Seminar in Athletic Training. (F)(3)
Intensive study and research pertaining to the field of athletic training and sports medicine in preparation for the National Athletic Trainer's Association certification test. *Prerequisite:* Athletic Training 231.

Athletic Training 432. Athletic Training Practicum IV. (F)(1)
This course investigates the special needs of the female, the young, and the physically challenged athlete. *Prerequisite:* Athletic Training 372.

Athletic Training 451. Internship in Athletic Training. (F,S)(3)
Supervised athletic training in a school, college, or clinic setting. *Prerequisite:* Athletic Training 231.

SPORTS MANAGEMENT

The Sports Management Program is designed for individuals interested in pursuing a career in a sports management related field. Opportunities for careers exist with professional sports teams, YMCA's, health clubs, sporting goods sales, and athletic management.

Two options within the program are available. Option 1, Health/Fitness, is for the individual who desires to become involved as an instructor in a YMCA, health, or fitness club aspect. Option 2, Business Operations, is designed for the individual who desires to become involved in the management/sales area of sport.

Requirements for a Major for Option 1, Health/Fitness: From the Physical Education area, four activity courses which must include Health 340, Physical Education 111, 134, 241, 340, 351, 361, 410, 420, 421, and 425. From the Business area, Accounting 271 and 272, Business Administration 352, 370, and 372, Computer Information Systems 141 and 211, Marketing 272 and Office Administration 302. In addition, all students will be required to take a 6 hour internship program in a related setting.

Requirements for a Major for Option 2, Business Operations: From the Physical Education area, four activity courses, Health 340 and Physical Education 241, 321, 351, 360, 361, 420, and 421. From the Business area, Accounting 271 and 272, Business Administration 310, 321, 352, 370, and 372, Computer Information Systems 141 and 211, Economics 204, and Office Administration 302. In addition, all students will take a 6 hour internship program in a related setting.

MILITARY SCIENCE PROGRAM (Army ROTC)

The mission of Union College's Army ROTC Department is to commission the future officer leadership of the United States Army. This is accomplished by providing a means for college students to pursue an Army commission as a second lieutenant while achieving their academic goals in their chosen field of study. Students may enroll in the first two years (Military Science 100-200 level courses) of Army ROTC without obligation to the military. These students gain an appreciation of the roles and missions of our national defense structure as well as military history. Students whose

future employment goals may require leadership or managerial skills, those with an interest in our national defense structure, or those who wish to explore the benefits of a career in the U.S. Army Reserves, National Guard, or regular service are encouraged to take the introductory courses. Students who desire to receive a commission must contract to complete the advanced courses (Military Science 300-0 level courses) and ROTC Advanced Camp before commissioning.

A two-hour leadership lab is held each week and is required for all registered Military Science 301, 302, 401, and 402 students. A 45 minute physical training lab is held three times weekly for all Military Science 300 and 400 level courses. Uniforms are issued for leadership lab participants. A $100.00 monthly allowance is paid to advanced course students participating in Military Science 300 and 400 level courses.

A complete military science program is four years in length and is designed to supplement and complement any regular baccalaureate degree program. Successful completion of the advanced military science program qualifies a student for commission as a second lieutenant in one of the 16 accession branches in the U.S. Army. Entrance into other non-accession branches may occur after additional schooling.

Students desiring to enter the U.S. Army on active duty after completing ROTC must request it through the Professor of Military Science. Competition for active duty is keen. Students who desire to be commissioned in the Army Reserves or National Guard may sign a guaranteed reserve forces duty contract.

Advanced Military Science courses will be offered off-campus. Students must make arrangements for schedule and travel.

ADVANCED PLACEMENT CREDIT

U.S. military veterans, Reserve, or National Guard personnel who have completed ninety days active duty for training, students with three or more years of junior ROTC, and academic sophomores who complete the six-week Army ROTC Basic at Fort Knox, Kentucky may qualify for entry into the program at the advanced level. Interested students must be pursuing a four-year degree, have a minimum of four full semesters of undergraduate degree work remaining at time of entry, and meet all other requisites for commissioned service. A special program for graduate students is also available.

MINOR IN MILITARY SCIENCE

A student may minor in military science by completing seventeen hours of advanced military science (Military Science 301, 302, 401, 402, and 487), Military Science 202, and either six hours of the ROTC Basic Courses or advanced placement credit.

SCHOLARSHIPS

Army ROTC scholarships are available to all students enrolled at Union College. These scholarships provide full payment of tuition, laboratory fees, an allowance for books and a nontaxable subsistence allowance of $100.00 per month for ten months each year the scholarship is in force. Scholarships are awarded on a competitive basis. Initial selection is made on campus by a board of Army officers. Final selection is made at Fort Knox, Kentucky.

High school students are eligible for four-year ROTC scholarships. Applicants interested in obtaining a four-year scholarship will be evaluated on the basis of the whole person concept. Students may qualify for a scholarship if:

a. They are a citizen of the United States. Non-citizens are ineligible for scholarship benefits.

b. They will be at least 17 years of age by October 1, of the year they enter college.

c. They have no moral obligation or personal conviction that will prevent them from:
   1. Supporting and defending the Constitution of the United States against all enemies-foreign and domestic.
   2. Conscientiously bearing arms.

d. They satisfactorily explain any record of arrest and/or civil conviction.

e. They receive at least a minimum SAT score of 850 and/or an ACT composite score of 19.

For additional information, including questions on ROTC scholarships and other assistance, see military science officers on campus or the division chair of Applied Sciences.

MILITARY SCIENCE

Advanced Military Science courses will be offered off-campus. Students must make arrangements for schedule and travel.

Military Science 101. Group Dynamics of Leadership. (F)(2)
Development of leadership and problem solving abilities; examination of leadership style and counseling techniques; comparison of civilian and military leadership; and analysis of the Constitutional historical basis for the U.S. Army.

Military Science 102. Military Skills and Operational Teamwork. (S)(2)
A study of principles, techniques and fundamentals of essential skills to the military profession. Map reading, weapons familiarization, communications, and rappelling are some of the topics covered. Classes are systematically arranged to promote student participation in group leadership development and problem solving techniques.

Military Science 202. American Military History. (S)(3)
Examines U.S. Military history from pre-revolutionary times to post-Vietnam; defines the principles of war; discusses political-military interactions; develops leadership through group contributions; case studies which apply the principles of war to historical periods. This course counts toward the history major.

Military Science 203. Intermediate Leadership and Management. (F)(2)
Provides students continued development of basic military skills through practical leadership experiences in performing emergency medical treatment, drill and ceremonies, physical training and rifle marksmanship. Principles of leadership and management are presented in classroom discussion.

Military Science 287. Military Science Practicum (Basic). (on demand)(2,5,6)
Introduces Military Science in a comprehensive summer field course designed to be taken in lieu of MLSC 101, 102, 202, or 203. This course emphasizes practical field application and leadership development.

Military Science 301. Advanced Leadership and Management I. (F)(3)
Introduction to advanced leadership and management, emphasizing the branches of the Army, communication systems, and equipment. Defines principles of leadership and develops leadership through practical application as a leader in field training and physical conditioning.

Military Science 302. Advanced Leadership and Management II. (S)(3)
Develops leadership and management ability and military skills in military communications, weapons, and tactics. Develops leadership and command presence through student presentations and practical application as a leader in field training and physical conditioning.

Military Science 401. Fundamentals and Dynamics of the Military Team I. (F)(3)
Develop staff officer skills in leadership and management through decision making and problem solving techniques through military planning, administrative and logistical management and detailed training management.

Military Science 402. Fundamentals and Dynamics of the Military Team II. (S)(2)
Discusses the impact of world affairs on U.S. Armed Forces; defines overall professional and ethical responsibilities of military officers; development of military officers; development of military management techniques; establishes a basic understanding of military justice and the Geneva convention.

Military Science 487. Military Science Practicum (Advanced). (on demand)(6)
Develops leadership through intensive six-week field course of rotating leader/command experience in problem analysis, decision making, and troop leading, while providing in-depth coverage of technical and tactical subjects.

DIVISION OF HUMANITIES

Dianne R. Ferris, *Chairperson*
Department of English, Journalism, and Foreign Languages
Department of Music and Fine Arts
Department of Religion and Philosophy

Humanities 320. Medieval Civilization. **(F)(3)**
An introduction to the history and civilization of Western Europe from 800 to 1450. (Odd years only.)

I. DEPARTMENT OF ENGLISH, JOURNALISM, AND FOREIGN LANGUAGES

Vernon G. Miles, *Department Head*
English — French — German
Journalism Emphasis

Statement of Departmental Goals and Assessment Procedures

Departmental Goals and Objectives

The English major, English major with a journalism emphasis, journalism minor, and the English Area at Union College include study in both literature and writing. Requirements promote understanding of the expressive capacities of language and appreciation of the psychological, cultural, and historical insights of literature. Students learn, as well, how to think critically and communicate effectively in a variety of contexts. Graduates find careers in a wide range of fields, including teaching, business and industry, public relations, and journalism. In addition, an English major, an English major with a journalism emphasis, journalism minor, or an English Area provide excellent preparation for graduate study in a variety of areas.

Upon graduation from Union College with a major in English, students should be able to:

1. write essays that follow the conventions of standard English usage, that are clear, organized, developed, and thoughtful, and that demonstrate awareness of audience.
2. read literature with understanding, appreciation, and judgement.
3. demonstrate knowledge of the major traditions of English and American literature.
4. discuss a literary work in the context of its historical period or genre.
5. demonstrate knowledge of the nature and functions of language or of the historical development of English.

Upon graduation from Union College with a major in English with a journalism emphasis, students should be able to meet goals 1-5 above and also:

6. perform the editorial and production skills required in the production of typical print media.
7. understand the role, responsibility, and operation of media in American society.

Upon graduation from Union College with an area in English, students should be able to meet goals 1-5 above and also:

8. demonstrate more extensive preparation in writing and in speech, drama, or journalism.

Statement of Assessment Procedures

All seniors in these three programs will be asked to compile a portfolio of work they have done in courses in the major or area and to write a short analysis of their work. This analysis should include a statement explaining why certain pieces of writing were included in the portfolio and what they show about the student's improvement as he or she has progressed through the major. This will be due two weeks prior to the spring Assessment Day. In addition, on Assessment Day each graduating senior will be interviewed by a departmental committee as part of the process of assessing whether departmental goals are being met.

Requirements for a Minor in English

An additional elective English course and Education 362 are required for those seeking teacher certification.

		Semester Hours
ENGL 221	Survey of English Literature I	3
ENGL 222	Survey of English Literature II	3
ENGL 231 or 232	Survey of American Literature	3
ENGL 311	Intermediate Composition	3
ENGL 372	Shakespeare	3
A genre course, chosen from the following		3
ENGL 351	The English Novel: Defoe to Brontes	
ENGL 352	The English Novel: ca. 1850 to D.H. Lawrence	
ENGL 451	Modern Poetry	
ENGL 452	American Novel	
A language course, chosen from the following		3
ENGL 401	Modern Grammar	
ENGL 421	History of the English Language	
		21

Requirements for a Major in English

In addition to all courses required for the minor, students take one of the following courses:

A period course, chosen from the following		3
ENGL 320	Medieval English Literature	
ENGL 321	English Renaissance Literature	
ENGL 322	Restoration and Eighteenth Century Literature	
ENGL 323	Nineteenth Century Literature	
ENGL 431	Contemporary American Literature	
ENGL 472	Seminar in Literature	3
An English elective		3
		30

Requirements for a Major in English with a Journalism Emphasis

Students take twenty-four hours of English courses (listed below) and twenty-three hours of Journalism courses which must include JOUR 151, 225, 227 and four practicums. Practicums may be fulfilled by working either on the Union Express (JOUR 180 to 480) or on the Stespean (JOUR 190 to 490) or by choosing a combination of the two practicum sets. Four additional Union Express practicums and four additional Stespean practicums are available to students during their junior and senior years. Only four hours of practicum may be included in the twenty-three hour Journalism course requirement.

		Semester Hours
ENGL 221	Survey of English Literature I	3
ENGL 222	Survey of English Literature II	3
ENGL 231	Survey of American Literature I	3
ENGL 232	Survey of American Literature II	3
ENGL 311	Intermediate Composition	3
ENGL 401 or	Modern Grammar	
ENGL 421	History of the English Language	3
ENGL 402	Advanced Composition	
or	300-400 level literature course	3
	Elective 300-400 level literature course	3
		24

Requirements for a Minor in Journalism

		Semester Hours
JOUR 151	Introduction to Mass Communication	3
JOUR 225	Newswriting	3
JOUR 226	Feature Writing	3
JOUR 227	Editing, Design	3
JOUR 331	Media Law and Ethics	3
JOUR 345	Print Design, Typography	3
JOUR 180	Journalism Practicum	3
Two additional practicum courses, chosen from the following		2
JOUR 190	Journalism Practicum	
JOUR 280	Journalism Practicum	
JOUR 290	Journalism Practicum	
JOUR 380	Journalism Practicum	
		21

Requirements for an Area in English

Eighteen hours in addition to the thirty-hour major. These six courses must include an additional linguistics course (English 401 or 421), English 402 or 419, and courses distributed among drama, journalism, and speech (these may include Speech 131).

Other Requirements

Students preparing to teach high school English are required to take Education 362 and should elect the English major, minor, or area. They should consult the Education Department for full information about course requirements.

All students majoring or minoring in English are advised to take at least six hours of a foreign language.

ENGLISH

English 090-091. English as a Second Language. **(on demand)(0)**
A preliminary, non-credit course for the foreign student seeking to acquire sufficient competence in listening to and speaking the English language to be able to communicate effectively in the classroom and in the college community.

English 110. Developmental English. **(F,S)(3)**
Training in college-level language skills. Designed to prepare students in English 111 and other introductory courses.

English 111. Freshman Composition I. **(F,S)(3)**
Writing papers from a variety of rhetorical approaches and stressing interdisciplinary connections. Reading of short prose pieces as models and for discussion. Must precede English 112.

English 112. Freshman Composition II. **(F,S)(3)**
Continuing the work begun in English 111, students in this course will review grammar, usage, and proofreading, will study the various types of essays, and will practice writing in response to short stories, poems, and plays. In addition, students will study the major principles of documentation and will examine the various forms of academic writing, particularly the essay examination. Must precede English 211.

English 113. Honors Composition and Literature. **(F)(3)**
A philosophical, historical, and critical survey of literary works and forms from the ancient world through the Medieval Period, this course is the first half of an English sequence designed to fulfill the Liberal Education Core at the honors level. *Prerequisite:* Acceptable score on national standardized test and permission of the department.

A general prerequisite for 200-level courses is the successful completion of English 111 and 112, or English 113 with a grade of "C" or better.

English 211. World Literature in Translation. **(F,S)(3)**
A survey of literary works and forms from the ancient world through the Renaissance. This course will be offered beginning summer 1995. *Prerequisite:* English 112.

English 212. Western Literature. **(F,S)(3)**
Survey of Western Literature from early Christian era through 17th Century. This course will be offered through Spring 1995 ONLY. *Prerequisite:* English 112.

English 213. Honors Western Literature. **(S)(3)**
A philosophical, historical, and critical survey of literary works and forms from the Renaissance through the Nineteenth Century, this course is the second half of an English sequence designed to fulfill the Liberal Education Core at the honors level.

English 221, 222. Survey of English Literature. **(F,S)(3)**
The first half includes the Middle Ages, the Renaissance, the Restoration and Eighteenth Century, and the second includes the Romantic and Victorian periods, and the Twentieth Century. Either course may be taken separately and not necessarily in sequence.

English 231, 232. Survey of American Literature. **(F,S)(3)**
The first half (1620-1865) begins with the Puritan writers and ends with Walt Whitman and Emily Dickinson, and the second (1865-1945) begins with Regional writers and ends with William Faulkner. Either course may be taken separately and not necessarily in sequence.

English 311. Intermediate Composition. **(S)(3)**
A writing course designed to reinforce and expand expository writing skills with an emphasis on writing as process.

A general prerequisite for literature courses numbered 300 and above is the successful completion of any one of English 212, 221, 222, 231 or 232. Students are urged to consult with members of the department before enrolling for advanced work.

English 320. Medieval English Literature. **(F)(3)**
A study of notable works from selected genres of tenth to fifteenth-century literature with particular attention to Arthurian material, Chaucer, the Lyric, and drama. (Odd years only.)

English 321. English Renaissance Literature. **(S)(3)**
A study of poetry, prose, and non-Shakespearean drama, beginning in the early sixteenth century and ending with Milton. (Odd years only.)

English 322. Restoration and Eighteenth Century Literature. **(F)(3)**
A study of major prose and poetry of the Restoration and eighteenth century, covering Dryden, Pope, Swift, Johnson, and their contemporaries. (Even years only.)

English 323. Nineteenth Century Literature. **(S)(3)**
Major poetry and nonfiction prose of the nineteenth century, with focus on the rise and transformation of Romanticism in England from Blake and Wordsworth to Tennyson and Browning. (Even years only).

English 325. Afro-American Literature. **(F)(3)**
A critical and historical study of the development of Afro-American literature in its various forms (slave narrative, essay, folk-tale, short story, poetry, novel, and drama) from its beginning to the present. (Even years only.)

English 351, 352. The English Novel. **(F,S)(3)**
Historical study of the growth of the novel as a form. The first course includes novels from Defoe through the Brontes; the second begins ca. 1850 and goes through D.H. Lawrence. Either course may be taken separately and not necessarily in sequence. (Even years only.)

English 355. Children's and Adolescent Literature. **(F)(3)**
A course that surveys a wide variety of fiction and poetry enjoyed by children and adolescents and suggests ways of evaluating these works as literature.

English 372. Shakespeare. **(S)(3)**
A critical approach to selected histories, comedies, and tragedies, focusing on their timeless human, literary and dramatic qualities.

A general prerequisite for 400-level courses is junior standing.

English 401. Modern Grammar. **(F)(3)**
An intensive review of traditional grammar in combination with selected material from structuralist views of linguistic analysis and theories of transformational grammar. Attention will be paid to the practical application of each. (Even years only.)

English 402. Advanced Composition. **(on demand)(3)**
Writing competency is reinforced by further developing what has been learned in previous writing courses. The instructor will assign factual narratives, autobiographies, or other significant writing projects.

English 419. Composition for Teachers. **(on demand)(3)**
Review of basic elements of composition with regular writing assignments in both expository and argumentative modes. Techniques of marking and evaluation of student papers. Research techniques, a methodology for teaching students to develop a research paper and practical application of the methodology through the assignment of a research paper as an integral part of the course itself.

English 421. History of the English Language. **(F)(3)**
A study of the origins and development of the English language from Anglo-Saxon times to the present. (Odd years only.)

English 431. Contemporary American Literature: Fiction. **(F)(3)**
A critical and historical study of the major American fiction (short stories and novels) since 1940, beginning with Richard Wright and J. D. Salinger and proceeding through the experimental fiction of the present time. (Odd years only.)

English 451. Modern Poetry. **(F)(3)**
American and British poetry, with consideration of ways of reading, criticizing, and writing verse in this century. (Odd years only.)

English 452. American Novel. **(S)(3)**
A critical and historical study of the development of the American novel and its form from its beginning to William Faulkner. (Odd years only.)

English 472. Seminar in Literature. **(S)(3)**
Intensive study of a major writer, group, or literary topic. May be repeated once for credit.

English 495. Independent Study. **(F,S)(3)**
Intensive individual work under supervision, in some phase of English, American, or world literature, linguistics, or composition not otherwise covered in the curriculum. *Prerequisites:* Twenty-four hours of English above English 111, 112, and permission of the head of the department. May be repeated for credit.

JOURNALISM

Journalism 180, 280, 380, 480. Journalism Practicum. **(F,S)(1)**
Operation of the campus newspaper, the Union Express, provides experience in reporting, layout, desktop publishing and photojournalism. Practicums above 280 include management. To be taken in sequence beginning with 180.

Journalism 190, 290, 390, 490. Journalism Practicum. **(F,S)(1)**
Operation of the campus yearbook, Stespean, provides experience in desktop publishing, writing and photojournalism. Practicums above 290 include management. To be taken in sequence beginning with 190.

Journalism 151. Introduction to Mass Communication. **(F,S)(3)**
Examines the significant theory, philosophy and history of mass communication. The course's emphasis on the motivations of journalists is important for journalism audiences, sources, and practitioners.

Journalism 225. Newswriting. **(F)(3)**
Basic course in reporting the news. Focus on information gathering, news story content formats, working under deadlines, and use of Associated Press style.

Journalism 226. Feature Writing. **(F)(3)**
A basic course for journalists. Introduces feature story formats, interview techniques, and staff and freelance markets in newspapers, magazines, and newsletters. *Prerequisites:* English 112. (Odd years only.)

Journalism 227. Editing, Design. (S)(3)
Basic course in copy editing, design, desktop publishing, headline writing, and photograph handling.

Journalism 233. Photojournalism. (on demand)(3)
Reporting the news with a camera. Stresses composing and shooting with a 35mm camera. Includes darkroom experience. Lab fee: $25. (Odd years only.)

Journalism 331. Media Law and Ethics. (F)(3)
Examines the segment of U.S. laws which governs freedom of the press (First amendment, libel, invasion of privacy, pornography/obscenity). Reviews press ethicists and applies their theories to print and broadcast media. (Even years only.)

Journalism 332. Editorial and Public Relations Writing. (on demand)(3)
Focuses on the specialized area of advocacy journalism. Introduces editorials, press releases, and writing for organizations.

Journalism 333. Sports Writing. (on demand)(3)
Focuses on news and feature coverage of sports events, personalities and trends. Examines techniques for interviewing, analyzing statistics, and acquiring sports information. *Prerequisite:* typing proficiency of 20 w.p.m.

Journalism 340. Advanced Reporting. (on demand)(3)
Gathering and writing news in depth on current issues and concerns. Stresses awareness of local, state, national, and international issues. *Prerequisite:* Journalism 225.

Journalism 345. Print Design, Typography. (S)(3)
Creative and practical aspects of designing publications with the Macintosh computer, desktop publishing software, and laser printer. Instruction in designing newspapers, magazines, and newsletters in the Teagle Writing Lab.

Journalism 450. Seminar in Communication. (on demand)(3)
To prepare students for graduate study, the course offers instruction in communication theory, models, and research. Experience in content analysis and survey research. *Prerequisites:* Twelve credit hours in Journalism, Junior or Senior status, and recommendation of Journalism instructor.

Journalism 485. Internship. (4)
Professional experience with a news or public relations organization or high school in writing, editing, design, or photography. *Prerequisites:* Fourteen credit hours in Journalism, Junior or Senior status, and recommendation of Journalism instructor.

Journalism 486, 487, 488, 489. Journalism Practicum. (F,S)(1)
Position of high level responsibility on campus newspaper provides continued experience in editing, layout, and newspaper management. *Prerequisite:* Journalism 480.

Journalism 492, 493, 496, 497. Journalism Practicum. (F,S)(1)
Position of high level responsibility on campus yearbook provides continued experience in photojournalism, layout, and yearbook management. *Prerequisite:* Journalism 490.

FRENCH

The program offers the opportunity to gain understanding of France and its culture as well as a basic knowledge of the French language. Students offering more than one entrance unit in French and students transferring from other colleges should consult with the instructor before registering for any course in French.

French 111. Elementary French I. (F)(3)
Basic French grammar; simple reading, practice in the oral and written language.

French 112. Elementary French II. (S)(3)
Continuation of French 111. *Prerequisite:* French 111 or equivalent.

French 211. Intermediate French I. (F)(3)
More detailed study of grammatical structure; study of important literary works; individual collateral reading tailored to the student's interests. *Prerequisite:* French 112 or equivalent.

French 212. Intermediate French II. (S)(3)
Continuation of French 211. *Prerequisite:* French 211 or equivalent.

French 331. French Civilization. (on demand)(3)
The economic, social, and cultural development of France, French contributions to world civilization. May not count toward fulfillment of the language requirement. **No knowledge of French required.**

French 495. Independent Study. (F,S)(3)
Intensive independent study of some aspect of French literature or civilization. May be repeated for credit.

GERMAN

The program offers the opportunity to gain some understanding of Germany and its culture as well as a basic knowledge of the German language. Students offering more than one entrance unit in German and students transferring from other colleges should consult with the instructor before registering for any course in German.

German 111. Elementary German I. (F)(3)
Basic German grammar; simple reading; practice in the oral and written language.

German 112. Elementary German II. (S)(3)
Continuation of German 111. *Prerequisite:* German 111 or equivalent.

German 211. Intermediate German I. (F)(3)
More detailed study of grammatical structure, reading of important literary works; individual collateral reading tailored to the student's interests. *Prerequisite:* German 112 or equivalent.

German 212. Intermediate German II. (S)(3)
Continuation of German 211. *Prerequisite:* German 211 or equivalent.

German 331. German Civilization. (on demand)(3)
The economic, social, and cultural development of Germany; German contributions to world civilization. May not count as part of the language requirements. **No knowledge of German required.**

German 495. Independent Study. (F,S)(3)
Intensive independent study of some aspect of German literature or civilization. May be repeated for credit.

II. DEPARTMENT OF MUSIC AND FINE ARTS

Betty S. Stroud, *Department Head*
Art — Drama and Speech — Music

ART

Union College course offerings in the field of art provide service courses for several curricula and opportunities for exploration and growth in artistic self-expression.

Art 132. Introduction to Art. (S)(3)
An introduction to Art outlining basic approaches, principles, techniques and media as well as styles of expression, both past and present.

Art 271. Elementary School Art. (F)(3)
A studio course involving many kinds of art projects in media suitable to and practicable for elementary grades.

Art 273. Art History. (on demand)(3)
The intensive study of major movements, personalities, and styles of architecture, painting and sculpture of world art.

Art 495. Independent Study. (F,S)(3)
Independent study or research on approved topics. May be repeated for credit.

DRAMA AND SPEECH

Requirements for a Major: A major in Drama consists of the following 30 hours. In addition, a Drama major must complete a reading list which consists of selected plays from the various periods. The student must write a one-page summary of the action of those plays which have not been covered in any of the courses taken.

		Semester Hours
DRAM 251	Fundamentals of Acting	3
DRAM 331	Scene and Light Design	3
DRAM 365	History of the Theatre to 1642	3
DRAM 366	History of the Theatre since 1642	3
DRAM 451	Directing	3
DRAM 461	Senior Project I	3
DRAM 462	Senior Project II	3
ENGL 372	Shakespeare	3
Two of the following		6
DRAM 280, 380, 480	Theatre Practicums	
DRAM 421	Non-Western Theatre and Drama	
DRAM 332	Costume and Make-up Design	
		30

Requirements for a Minor in Drama: A minor in Drama consists of the following 21 hours.

		Semester Hours
DRAM 251	Fundamentals of Acting	3
DRAM 331	Scene and Light Design	3
DRAM 365	History of the Theatre to 1642	3
DRAM 366	History of the Theatre since 1642	3
DRAM 451	Directing	3
Two of the following		6
DRAM 280, 380, 480	Theatre Practicums	
DRAM 421	Non-Western Theatre and Drama	
ENGL 372	Shakespeare	
		21

Drama 131. Introduction to the Theatre. (F)(3)
A broad overview of the history of theatre and drama as well as an introductory study of acting, designing, and directing.

Drama 180, 280, 380, 480. Theatre Practicum. (F,S)(1)
Actual practical experience in preparing productions for Union College Theatre. Participation may be in the area of acting or technical work.

Drama 251. Fundamentals of Acting. (S)(3)
Stanislavski approach to acting. The course will consist of exercises and the analysis and performance of scenes from contemporary drama and Shakespeare. *Prerequisite:* Drama 131 or permission of the instructor. (Odd years only.)

Drama 331. Scene and Light Design. (F)(3)
Fundamentals of set and light design for the stage. Practical study of set construction and lighting equipment as well as designing the set and lights for a play selected by the student. *Prerequisite:* Drama 131 or permission of the instructor. (Odd years only.)

Drama 365. History of the Theatre to 1642. (F)(3)
A study of the theatre, drama, and criticism from the Greeks to 1642. *Prerequisite:* Drama 131 or permission of the instructor. (Even years only.)

Drama 366. History of the Theatre since 1642. (S)(3)
A study of the theatre, drama, and criticism from 1642 to the present. *Prerequisite:* Drama 131 or permission of the instructor. (Even years only.)

Drama 421. Non-Western Theatre and Drama. (on demand)(3)
A study of the traditional forms of theatre and drama in India, Southeast Asia, China, and Japan. *Prerequisite:* Drama 131 or permission of the instructor.

Drama 451. Directing. **(on demand)(3)**
Study of directing techniques and script analysis culminating in the staging of a one-act play. *Prerequisite:* Permission of the instructor.

Drama 461. Senior Project in Theatre I. **(on demand)(3)**
Advanced work in the theatre arts which consists of selecting, analyzing, and designing a full-length play for production (or a project of comparable magnitude to be chosen in consultation with the instructor). Open to drama majors only.

Drama 462. Senior Project in Theatre II. **(on demand)(3)**
Continuation of Drama 461: will consist of mounting the production of the full-length play (selected, analyzed, and designed in Drama 461) as part of the Union College Theatre season (or completion of alternative project). *Prerequisites:* Successful completion of Drama 461 and permission of the instructor.

Drama 495. Independent Study. **(on demand)(3)**
Independent study or research on approved topics.

Speech 131. Introduction to Speech Communication. **(F)(3)**
Introduction to the principles and process of speech communication through applied oral presentation in a small-group public speaking setting. Discussion and application of basic theories of human communication and role of audience in the communication process.

Speech 231. Oral Interpretation of Literature. **(S)(3)**
Analysis and performance of narrative prose, poetry, and drama. (Odd years only.)

MUSIC

Objectives:

1. To provide the required curricula for the Bachelor of Arts and the Bachelor of Science in Music, the Bachelor of Music in Church Music, the Bachelor of Music in Music Education.
2. To offer group and private instruction which provides for the development of individual musicianship of the music major, music minor, and general college student.
3. To offer opportunities for participation in music ensembles and music theatre for the music majors, music minors, and general college students.
4. To provide recitals, concerts, and music theatre for the cultural enrichment of the campus and community.

Music Library: The music library, located in the Fine Arts Building, contains records, CD's, tapes, scores, listening and computer assisted music instruction facilities.

DEGREES

Students majoring in music at Union College may pursue the following degree programs:

Bachelor of Music in Music Education
Bachelor of Music in Church Music
Bachelor of Arts in Music
Bachelor of Science in Music
Bachelor of Science in Music and Business

Bachelor of Music in Music Education
(K-12 Certificate)

Candidates for the Bachelor of Music Education will take the following courses (see also Liberal Education and graduation requirements).

(Part of general studies for music majors; prerequisite to admittance to the major in music education.)

Option I, Instrumental Emphasis *Semester Hours*

MUSC 161-162	Foundations of Music	8

I. Music Core

MUSC 111-411	Applied Music	14
MUSC 152, 153, 154, 155, 156, 157, 158, 159	Ensembles	0
MUSC 173-174	Piano Class	2
MUSC 261-262	Harmony	6
MUSC 263-264	Ear-Training	2
MUSC 321-322	Music History	6
MUSC 361-362	Form and Analysis	4
MUSC 417	Senior Recital	1
		35

II. Professional Courses

EDUC 241	Introduction to Education	3
EDUC 242	Early Involvement Internship	3
EDUC 351	Human Growth and Development	3
EDUC 453	Supervised Student Teaching in the Secondary School	12
MUSC 373	Elementary School Music	3
MUSC 375	Instrumental Methods and Materials	2
MUSC 471	Marching Band Techniques	2
PSYH 361	Psychology of Learning	3
SPED 201	Survey of Exceptionalities	3
		34

III. Additional Music Requirements

MUSC 171	String Instruments Class	1
MUSC 172	Woodwind Instruments Class	1
MUSC 175	Brass Instruments Class	1
MUSC 176	Percussion Instruments Class	1
MUSC 365	Arranging	2
MUSC 474	Instrumental Conducting	2
	Total	77

Option II, Vocal Emphasis

MUSC 161-162	Foundations of Music	8

I. Music Core

MUSC 111-411	Applied Music	14
MUSC 152, 153, MUSC 154, 155, MUSC 156, 157, MUSC 158, 159	Ensembles	0
MUSC 173-174	Piano Class	
or 177-178	Voice Class	2
MUSC 261-262	Harmony	6
MUSC 263-264	Ear-Training	2
MUSC 321-322	Music History	6
MUSC 361-362	Form and Analysis	3
MUSC 417	Senior Recital	1
MUSC 475	Pedagogy	2
		37

II. Professional Courses

EDUC 241	Introduction to Education	3
EDUC 242	Early Involvement Internship	3
EDUC 351	Human Growth and Development	3
EDUC 453	Supervised Student Teaching in the Secondary School	12
MUSC 373	Elementary School Music	3
MUSC 374	Vocal Methods for the Secondary School	3
PSYH 361	Psychology of Learning	3
SPED 201	Survey of Exceptionalities	3
		33

III. Additional Music Requirements

MUSC 365	Arranging	2
MUSC 473	Choral Conducting	2
		4
	Total	74
Keyboard majors:	Private Voice	2
	Total	76

Option III, Instrumental Endorsement

Completion of Option II plus an additional twelve hours organized as follows: choice of any three of the four instrumental techniques classes, 3 hours; additional applied music study in one of those areas (3 semesters), 3 hours; Instrumental Conducting, 2 hours; and four additional semesters of participation in an instrumental ensemble (for a total of six semesters), 4 hours.

Option IV, Vocal Endorsement

Completion of Option I plus an additional twelve hours organized as follows: Pedagogy — Vocal, 2 hours; Choral Conducting, 2 hours; Voice Class, 2 hours; additional voice study (2 semesters), 2 hours; and four additional semesters of participation in a vocal ensemble (for a total of six semesters), 1-4 hours.

Bachelor of Music in Church Music

Candidates for the Bachelor of Music in Church Music will take the following courses (see also Liberal Education and graduation requirements).

I. Music Core

		Semester Hours
MUSC 111-411	Applied Music	14
MUSC 152, 153, 154, 155, 156, 157, 158, 159	Ensembles	0
MUSC 161-162	Foundations of Music	8
MUSC 173-174 or 177-178	Piano Class Voice Class	2
MUSC 261-262	Harmony	6
MUSC 263-264	Ear-Training	2
MUSC 321-322	Music History	6
MUSC 361-362	Form and Analysis	4
MUSC 417	Senior Recital	1
		43

II. Church Music and Professional Courses

MUSC 231	Handbell Methods	1
MUSC 333	Church Music Administration	2
MUSC 335	Hymnology	2
MUSC 337	Church Organs	2
MUSC 373	Elementary School Music	3
MUSC 374	Vocal Methods for the Secondary School	3
MUSC 436	History and Philosophy of Church Music	2
MUSC 437	Church Music Practicum	4
		19

III. Additional Music Requirements

MUSC 171, 172, 175	Instrumental Techniques (choose 2)	2
MUSC 462	Counterpoint	2
MUSC 473	Choral Conducting	2
MUSC 474	Instrumental Conducting	2
	Private Piano or Organ (for voice major)	
	or	
	Private Voice (for instrumental major)	2
		10

IV. Courses in Religion

RLGN 111	Old Testament History, Literature and Interpretation	3
RLGN 112	New Testament History, Literature and Interpretation	3
RLGN 354	Religion in the United States	3
		9
	Total	82

Bachelor of Arts and Bachelor of Science in Music

Candidates for the Bachelor of Arts or Bachelor of Science Degree in Music will take the following music courses either from Option I or Option II (see also Liberal Education and graduation requirements):

Option I. Academic Emphasis

		Semester Hours
MUSC 111-212	Applied Music*	8
MUSC 161-162	Foundations of Music	8
MUSC 261-262	Harmony	6
MUSC 263-264	Ear-Training	2
MUSC 321-322	Music History	6
MUSC 361-362	Form and Analysis	4
MUSC 421-422	Music History Seminar	6
	Ensemble	0
		40

Option II. Applied Emphasis

MUSC 111-412	Applied Music	16
MUSC 161-162	Foundations of Music	8
MUSC 261-262	Harmony	6
MUSC 263-264	Ear-Training	2
MUSC 321-322	Music History	6
MUSC 361-362	Form and Analysis	4
	Ensemble	0
MUSC 417	Senior Recital	0 or 1
		42 or 43

*The 212 level must be reached in the student's major applied area.

Bachelor of Science in Music and Business

Candidates for the Degree of Bachelor of Science in Music and Business will take the following courses (see also Liberal Education and graduation requirements):

I. Business Core

		Semester Hours
ACTG 271-272	Principles of Accounting I and II	6
BUAD 310	The Legal Environment of Business	3
BUAD 351	Principles of Finance	3
BUAD 352	Principles of Management	3
COMP 211	Introduction to Business Information Systems	3
ECON 203	Principles of Macroeconomics	3
ECON 204	Principles of Microeconomics	3
MKTG 321	Principles of Marketing	3
		27

II. Music Requirements

MUSC 101-202	Applied Music	4
MUSC 161-162	Foundations of Music	8
MUSC 171, 172, 173, 175, 176	String, Woodwind, Piano, Brass and Percussion classes (choose any 3)	3
MUSC 261-262	Harmony	6
MUSC 322	Music History	3
	Ensemble	4
		28

III. Additional Business Requirements

MKTG 272	Personal Selling	3
OFAD 302	Business Communications	3
	Elective from the Department of Business (300 level or above)	3
	Field Placement	3-10
		12-19

Minor in Music

Twenty-one semester hours, including Music 161-162; three semester hours selected from either Music 321 or 322; two semester hours of music electives; two years of ensemble; and completion of the 202-level of course numbering in one field of applied music, or eight hours of applied music arranged differently with the consent of the department.

DEPARTMENTAL REQUIREMENTS

Specific requirements for music majors and minors are listed in the Music Department Handbook. Students will be held responsible for requirements in the Handbook. More detailed information is given for the following:

1. Entrance Test: All music majors and minors entering the Department for the first time shall take a placement test in theory and functional piano. The test is for placement only, and in no way affects the entrance to music study.
2. Keyboard Proficiency: All candidates for the Bachelor of Music in Music Education and the Bachelor of Music in Church Music must pass the Keyboard Proficiency Test. For details, see the Music Department Student Handbook.
3. Ensemble Requirements: All music majors are required to participate in a minimum of seven semesters of one ensemble within their major performance area. All music minors are required to participate in a minimum of four semesters in an ensemble within their major performance area.
4. Recital and Concert Attendance: Attendance at departmental recitals and concerts is required of all music majors and minors during each semester of applied music study.
5. Recital Requirements: Candidates for the Bachelor of Music degree and candidates for the Bachelor of Arts or Bachelor of Science degree in Music (Applied Emphasis) must present a full recital on their major instrument or in voice. Candidates for the Bachelor of Arts or Bachelor of Science in Music (Academic Emphasis) may be invited to present a recital by the music faculty.

APPLIED MUSIC—SECONDARY LEVEL

These courses are designed for any music major taking lessons on a secondary instrument, and elective credit for general college students.

Music 101-102. Applied Music **(F,S)(1-2)**
Freshman level secondary applied music study.

Music 201-202. Applied Music. **(F,S)(1-2)**
Sophomore level secondary applied music study.

Music 301-302. Applied Music. **(F,S)(1-2)**
Junior level secondary applied music study.

Music 401-402. Applied Music. **(F,S)(1-2)**
Senior level secondary applied music study.

APPLIED MUSIC—MAJOR LEVEL

These courses are designed for students enrolled in Music and Business and for students seeking a Bachelor of Arts or a Bachelor of Science degree with a music major or minor, applied emphasis, and for the Bachelor of Music in Church Music or Music Education.

Music 111-112. Applied Music. **(F,S)(1-2)**
Freshman major or minor level applied music study.

Music 211-212. Applied Music. **(F,S)(1-2)**
Sophomore major or minor level applied music study.

Music 311-312. Applied Music. **(F,S)(1-2)**
Junior major level applied music study.

Music 317. Junior Recital. **(F,S)(0-1)**

Music 411-412. Applied Music. **(F,S)(1-2)**
Senior major level applied music study.

Music 415-416. Applied Field Literature. **(on demand)(2)**
A study of the literature for the student's major instrument, and related instruments where appropriate, with attention to stylistic characteristics and ornamentation.

Music 417. Senior Recital. **(F,S)(0-1)**

Music 418-419. Sight-Reading and Accompanying. **(on demand)(1)**
Proficiency in reading the various clefs, vocal scores; and accompaniments, with emphasis on the techniques of sensitive accompanying. Keyboard majors and selected minors only.

HISTORY AND APPRECIATION

Music 121. Introduction to Music. **(F)(3)**
An historical approach to music appreciation focusing on period and style. Extensive listening to music literature. Not open to music majors or minors.

Music 122. Introduction to the History of American Popular Music. **(S)(3)**
An historical approach involving the study of styles and personalities beginning with the origins of jazz and ending with current trends and concepts. Open to all students.

Music 321, 322. Music History. **(F,S)(3)**
A study of representative music both written and recorded and readings coordinating and integrating music skills. (321) Antiquity through 1750. (322) Classic period to the present. *Prerequisite:* Music 162.

Music 421-422. Music History Seminar. **(on demand)(3)**
Intensive study of a selected period or genre. Major paper required. *Prerequisites:* Music 321, 322.

CHURCH MUSIC

Music 231. Handbell Methods. **(F)(1)**
A study of the techniques, methods, materials, and repertory of English handbell ringing. *Prerequisite:* Music 162 or permission of instructor.

Music 333. Church Music Administration. **(F)(2)**
The role of the minister of music as related to the graded adult, youth, and children's choir programs, budget and calendar planning, the congregation, the multiple staff church, and the denomination.

Music 335. Hymnology. **(S)(2)**
The study and analysis of the hymns of the church, their sources, development, and usage in contemporary service.

Music 337. Church Organs. **(F)(2)**
The study of the history of the instrument, types of organs, basic upkeep, techniques, and service repertoire.

Music 436. History and Philosophy of Church Music. **(S)(2)**
A detailed, historical study of music within the church relating to its origin and development, with emphasis upon liturgies and historic philosophical positions of the church on music.

Music 437. Church Music Practicum. **(on demand)(4)**
One semester or one summer of supervised field work in an approved church. *Prerequisite:* Consent of the Music faculty.

ENSEMBLES

Music 151. Orchestra. **(F,S)(0-1)**
Open by audition or invitation. Participation in the activities of the Chamber Orchestra of the Cumberlands, a college/community orchestra of modest size. One rehearsal per week. May be repeated for credit.

Music 152. Union College Singers. **(F,S)(0-1)**
Open by audition only; performs in chapel, Christmas concert, Spring concert, graduation, tours, and festivals. Limited to forty-nine students; four rehearsals per week. May be repeated for credit.

Music 153. Stage Band. **(F,S)(0-1)**
Open by audition only. A jazz-oriented ensemble of appropriate instrumentation limited to twenty students. One rehearsal per week. May be repeated for credit.

Music 154. Symphonic/Pep Band. **(F,S)(0-1)**
Open by audition only. Symphonic Band rehearses and performs a variety of music literature for the concert hall. Pep Band is a performance group which offers support and entertainment at home athletic events. Three rehearsals per week. May be repeated for credit.

Music 155. Brass Chamber Ensemble. **(on demand)(0-1)**
Open by audition only. Size and make-up will vary with the needs and interests of the students enrolled. One rehearsal per week. May be repeated for credit.

Music 156. Collegium Musicum. **(on demand)(0-1)**
Open to interested students. A performance group intended to give the student acquaintance with less frequently performed literature. One rehearsal per week. May be repeated for credit.

Music 157. Woodwind Chamber Ensembles. **(on demand)(0-1)**
Open by audition only. Size and make-up will vary with the needs and interests of the students enrolled. One rehearsal per week. May be repeated for credit.

Music 158. String Chamber Ensemble. **(on demand)(0-1)**
Open by audition only. Size and make-up will vary with the needs and interests of the students enrolled. One rehearsal per week. May be repeated for credit.

Music 159. Union College Chamber Singers. **(F,S)(0-1)**
A select vocal ensemble composed of a small number of singers whose repertory consists of vocal chamber music. Open by audition. May be repeated for credit.

THEORY

Music 161-162. Foundations of Music. **(F,S)(4)**
A combined course in the areas of music theory, history, and literature.

Music 261-262. Harmony. **(F,S)(3)**
Continuation of Music 161-162 in the area of part-writing and analysis. Advanced chromatic harmony of the middle Romantic period. *Prerequisite:* Music 162.

Music 263-264. Ear-Training. **(F,S)(1)**
Sight-singing, ear-training, and dictation to be taken concurrently with Music 261-262. Two periods per week. *Prerequisite:* Music 162.

Music 361-362. Form and Analysis. **(F,S)(2)**
The development of musical forms from small units to large. Study of large scale analytic techniques including those necessary for late 19th and 20th Century music. *Prerequisite:* Music 262.

Music 365. Arranging. **(S)(2)**
Basic techniques of orchestration and arranging. *Prerequisite:* Music 162.

Music 461-462. Counterpoint. **(461 on demand, 462 F, odd years)(2)**
The vocal counterpoint of Palestrina and the instrumental counterpoint of Bach. *Prerequisite:* Music 162.

Music 465. Theory Seminar. **(on demand)(3)**
An advanced course in music theory, including a study of contemporary practices. *Prerequisite:* Music 362 and permission of the instructor.

MUSIC EDUCATION

Music 171. String Instruments Class. **(F)(1)**
Class instruction in strings. (Even years only.)

Music 172. Woodwind Instruments Class. **(S)(1)**
Class instruction in woodwinds. (Odd years only.)

Music 173-174. Piano Class. **(F,S)(1)**
Class instruction in piano.

Music 175. Brass Instruments Class. **(F)(1)**
Class instruction in brass. (Odd years only.)

Music 176. Percussion Instruments Class. **(S)(1)**
Class instruction in percussion. (Even years only.)

Music 177-178. Voice Class. **(F,S)(1)**
Class study for students who are not prepared to study at the level of private applied voice.

Music 373. Elementary School Music. **(S)(3)**
Methods and materials in the elementary school. Will include fundamental ability at the keyboard, the fundamentals of music, and library research. Includes directed observation of and participation in public school classroom activities for music majors.

Music 374. Vocal Methods for the Secondary School. **(F)(3)**
Materials, rehearsal techniques, and vocal health for the secondary school student. Includes directed observation of and participation in public school classroom activities. *Prerequisite:* Junior standing.

Music 375. Instrumental Methods and Materials. **(S)(2)**
Teaching Instrumental Music in the Public Schools: Procedures, techniques, curriculum, scheduling, administration, evaluation, materials, equipment, and community relations. Includes directed observation of and participation in public school classroom activities. *Prerequisites:* Music 171, 172, 175, 176, and Junior standing.

Music 471. Marching Band Techniques. **(F)(2)**
Functions, organization, and direction of a school marching band program. Includes directed observation and participation in public school classroom activities. *Prerequisite:* Junior standing.

Music 473. Choral Conducting. **(F)(2)**
Techniques and literature. (Odd years only.)

Music 474. Instrumental Conducting. **(F)(2)**
Techniques and literature. (Even years only.)

Music 475. Pedagogy. **(on demand)(2)**
Techniques and principles of private and class instruction, emphasis on recommended materials.

INDEPENDENT STUDY

Music 495. Independent Study. **(F,S)(2-3)**
Independent study and/or research on approved topics. *Prerequisite:* Permission of the student's major professor. May be repeated for credit.

III. DEPARTMENT OF RELIGION AND PHILOSOPHY

L. Edward Phillips, *Department Head*

Christian Education — Religion — Philosophy — Philosophy/Religion

Courses in this Department are designed to acquaint students with the Judaeo-Christian heritage and the other great religious traditions and with the disciplines of human thought; to deepen their awareness of themselves and of the human community; to cultivate their powers of critical examination of the meaning and direction of human existence.

Studies in religion are especially recommended for students of art, history, and literature, and for students preparing for Christian vocations.

Studies in philosophy are especially recommended for pre-professional education for such vocations as the Christian ministry, college teaching, law, journalism, creative writing, and art, as well as for students of history, literature, and the sciences.

CHRISTIAN EDUCATION

In recognition of increasing demand for trained men and women as full-time Christian workers in the ministry of the local church, to serve in the capacities of pastor's assistant, director of youth work, or Director of Christian Education, a specific four-year course of study has been arranged, using the facilities of various departments. It is designed to meet the basic needs of students who wish to go directly into church positions without graduate work.

The thirty-hour major must include the following courses: Philosophy 261, Physical Education 321, Religion 111, 112, 356, 361, and Speech 131.

Nine additional hours in religion courses numbered above 300 complete the thirty-hour major. Psychology 402 may be substituted for one of these courses. Additional courses in music, drama and Appalachian Studies are recommended to complete the major. A second major or minor in drama or music is strongly suggested.

RELIGION

Requirements for a Major: Thirty semester hours. The thirty-hour major must include the following courses: Philosophy 261, Religion 111, 112, 252, 356, and 412 or 479. Twelve additional elective hours complete the major, at least nine of which must be in courses numbered above 300. Philosophy 371 may be substituted for one of these courses.

Requirements for a Minor: Twenty-one semester hours, at least nine of which must be in courses numbered above 300.

Religion 111. Old Testament History, Literature, and Interpretation. (F,S)(3)
The history of Israel from the earliest times to the Maccabean Age. Historical and literary criticism and religious significance of the emergence of Judaism.

Religion 112. New Testament History, Literature, and Interpretation. (F,S)(3)
Attention to author, date, origin, historical and religious significance.

Religion 131. World Religions. (S)(3)
A descriptive account of the faith and practices of present-day world religions, with emphasis on Hinduism, Buddhism, Confucianism, and Islam.

Religion 201-202. Elementary New Testament Greek. (F,S)(3)
A semi-inductive approach to koine Greek recommended for persons interested in religion as well as for religion majors. (Odd years only.)

Religion 252. Church History, Early and Medieval. (F)(3)
The origin and development of the Christian Church from its beginning up to the eve of the Reformation. (Even years only.)

Religion 301-302. Elementary Old Testament Hebrew. (on demand)(3)
A study of sufficient grammar to read simple Old Testament passages, recommended for persons interested in religion as well as for religion majors.

Religion 331. The Life and Teachings of Jesus. (F)(3)
The world into which Jesus was born and an interpretation of his messianic consciousness, personality, activities, and teachings. *Prerequisite:* Religion 112 recommended. (Even years only.)

Religion 341. The Life and Teachings of Paul. (S)(3)
The world of Paul, his life, teachings,a nd significance, using his letters as the primary source. *Prerequisite:* Religion 112 recommended. (Even years only.)

Religion 352. Church History from the Reformation to the Twentieth Century. (S)(3)
Church History on the European continent and in England from the sixteenth century through the nineteenth century. Attention will be given to the main Protestant and Catholic traditions, with special emphasis on the Wesleyan movement. (Even years only.)

Religion 354. Religion in the United States. (F)(3)
This course provides students with a phenomenological and historical description of the varieties of religious practice in the United States. No prerequisites. (Odd years only.)

Religion 356. Contemporary Christian Thought. (S)(3)
Examination of contemporary understandings of the Christian faith, with emphasis on the nature of God and humanity; the significance of Christ and the church; the relation of religion to morality; the meaning of Creation and Redemption; and the interpretation of Human Destiny. *Prerequisite:* Religion 112. (Odd years only.)

Religion 361. Education in the Local Church. (S)(3)
Theory and practice of Christian Education with special attention on planning a program in the local church. (Even years only.)

Religion 412. Worship and Sacrament. (on demand)(3)
The development of worship and sacrament in Christianity from the Bible to the present. Attention will be given to the diversity of practice in contemporary Western churches. *Prerequisite:* Religion 112 or permission of instructor.

Religion 479. Seminar in Religion. (S)(3)
Intensive study of a special subject with oral and written reports. Possible topics include The Fourth Gospel, Apocalyptic Literature, Pauline Theology, Wisdom Literature, The Apostolic Period. *Prerequisites:* Advanced standing and permission of the instructor. (Odd years only.)

Religion 495. Independent Study. (F,S)(3)
Independent study or research on approved topics. May be repeated for credit.

PHILOSOPHY

The word "philosophy" means, literally, "the love of wisdom." Philosophy encourages critical thinking and engages in systematic inquiry into questions of the meaning of life, the nature of reality, truth and justification, knowledge and belief, religion and science, personal morality and social justice.

In addition to providing any student with an opportunity for developing analytical skills and clarifying personal beliefs on many issues, a minor in philosophy can be an effective part of a pre-professional course of studies for the law, the ministry, business, medicine, journalism, creative writing, public service or politics. Indeed, students in philosophy routinely score highest among all departments on professional and graduate school tests. Although traditionally considered the most "abstract" and "impractical" of all academic disciplines, philosophers today are found working in hospitals, businesses, non-profit corporations and government as well as in college teaching.

Requirements for a Minor. Twenty-one semester hours.

Philosophy 151. Introduction to Philosophy: Knowledge and Reality. (F)(3)
An introduction to the aims, methods and history of philosophy with special attention to questions related to the nature of reality, skepticism and certainty, knowledge and belief, reason and experience, truth and justification, philosophy of mind, the existence of God, science and religion. Emphasis is placed upon helping students to develop skills in critical thinking.

Philosophy 152. Introduction to Philosophy: Ethics and Society. (S)(3)
An introduction to the aims, methods and history of philosophy with special attention to questions related to the nature of moral value, skepticism and relativism, the individual and society, concepts of justice, philosophy of life, contemporary moral issues. Emphasis is placed upon helping students to develop skills in critical thinking.

Philosophy 261. Philosophy of Religion. (F)(3)
Examination of philosophical issues related to religious faith such as concepts of religion and of God, arguments for and against the existence of God, the problem of evil, religious language, mysticism and religious experience, faith and reason, religion and science, religion and morality, religion and politics, revelation, miracles, life after death, relativism and pluralism, particularism and universalism. Course will include traditional and contemporary approaches. (Even years only.) *Prerequisite:* One course in philosophy and one course in religion or permission of the instructor.

Philosophy 320. Logic. (S)(3)
A study of formal and informal methods of rational argumentation including the uses of language, definition, logical fallacies, traditional syllogistic logic, modern propositional logic, first order predicate logic. Course will stress development of skills for the construction and criticism of actual arguments. (Odd years only.) *Prerequisite:* One course in philosophy or permission of the instructor.

Philosophy 340. Ethics. **(F)(3)**
A study of ethical theories and principles, the nature of moral discourse, subjectivism and relativism, contemporary moral problems. Emphasis is placed upon helping students to develop skills for relating theoretical issues to concrete moral decision-making. Course may be listed under an appropriate subtitle such as: Biomedical Ethics, Environmental Ethics, Religion and Morality, etc., May be repeated for credit when listed under a different subtitle. (Odd years only.) *Prerequisite:* One course in philosophy or permission of the instructor.

Philosophy 360. Knowledge and Reality. **(S)(3)**
Selected topics in epistemology and metaphysics. Course may be listed under an appropriate subtitle such as: philosophy of science, philosophy of mind, philosophy of language, reason and relativism, religion and science, etc. May be repeated for credit when listed under a different subtitle. (Even years only.) *Prerequisite:* One course in philosophy or permission of the instructor.

Philosophy 415. Analytic Philosophy. **(F)(3)**
Examination of issues and methods related to "the linguistic turn" in philosophy through the study of representative philosophers such as Moore, Russell, Wittgenstein and movements such as logical positivism and ordinary language philosophy. Course will consider distinctive contributions from the American philosophical tradition of pragmatism from Peirce to Rorty. (Odd years only.) *Prerequisite:* At least one course in philosophy. Permission of the instructor is highly recommended.

Philosophy 417. Continental Philosophy. **(F)(3)**
Examination of issues and methods in recent continental philosophy through the study of representative philosophers such as Kierkegaard, Nietzsche, Husserl, Heidegger, Tillich, Sartre, Camus, Gadamer, Habermas, Levinas, Foucault, Derrida and movements such as existentialism, phenomenology, hermeneutics, critical theory and deconstruction. Course will consider parallels between analytic and continental approaches to philosophy. (Even years only.) *Prerequisite:* At least one course in philosophy. Permission of the instructor is highly recommended.

Philosophy 479. Seminar in Philosophy. **(on demand)(3)**
Intensive study of a special topic, historical period or philosopher. May be repeated for credit. *Prerequisite:* Permission of the instructor.

Philosophy 495. Independent Study. **(on demand)(3)**
Independent study or research on approved topics. May be repeated for credit. *Prerequisite:* Permission of the instructor.

PHILOSOPHY/RELIGION

Requirements for a Major. Thirty semester hours.

The Philosophy/Religion major is recommended as an especially strong course of studies for students seeking a broad background in the Liberal Arts, interdisciplinary studies in the Humanities or a specialization in the traditions of Western or Comparative History of Ideas. It is a useful course of studies for many pre-professional programs in such areas as law, business, politics, public administration and public service, teaching and religions vocations. It provides a solid background for graduate studies in philosophy, religion or other related disciplines.

The major consists of thirty-six hours including the following courses:

Religion 111. Old Testament History, Literature and Interpretation
Religion 112. New Testament History, Literature and Interpretation
Religion 131. World Religions
Religion 356. Contemporary Christian Thought
Philosophy 151. Introduction to Philosophy: Knowledge and Reality
Philosophy 152. Introduction to Philosophy: Ethics and Society
Philosophy 261. Philosophy of Religion
Philosophy 320. Logic
Philosophy 340. Ethics

The remaining course(s) may be selected from courses in Religion or in Philosophy at the 300 level or above. In addition to the basic 30 hours, Religion 479 and Philosophy 479 are strongly recommended.

DIVISION OF NATURAL SCIENCES

Robert W. Swanson, *Chairperson*
Biology — Chemistry — Computer Science — Environmental Studies
General Science — Mathematics — Physics — Science Education

BIOLOGY

Requirements for a Major: Thirty semester hours in biology including:

		Semester Hours
BIOL 111	General Biology	4
BIOL 232	General Zoology	4
BIOL 233	General Botany	4
BIOL 361	Genetics	4
BIOL 441	Ecology	4
BIOL 431	Cell Biology	4
OR		
CHEM 421	Biochemistry	3
BIOLOGY ELECTIVES (300 or 400 level		7

Science Cognates include Chemistry 111, 112, 131, 132; General Science 471; and one of the following groups of Physics 111, 112, 113 OR Physics 211, 212, 213. Those students seeking secondary certification must complete two semesters of physics laboratory. Biology 331 and 334 are highly recommended as electives for those seeking secondary certification.

Requirements for a Minor: Twenty-four semester hours in Biology are required. Biology 111, 232 and 233 must be included. Students seeking secondary certification must complete either the area of concentration in science or major in mathematics, chemistry or physics.

Biology 109. Elements of Biology. **(F,S,Sum)(3)**
An introduction to biology from the perspective of the non-science student. The impact of biology on society and the relevance of biology to our individual lives are stressed. The nature of science as well as its limitations are an important part of the course. Topics surveyed include ecology, classical and modern genetics, evolution, biological energetics, and the organization of living systems.

Biology 110. Elements of Biology Laboratory. **(F,S)(1)**
Optional laboratory course to accompany Biology 109. No credit will be given for Biology 110 without simultaneous or prior successful completion of Biology 109.

Biology 111. General Biology. **(F)(4)**
A course emphasizing general concepts of modern biology for majors and non-majors. Topics surveyed include cell biology, bioenergetics, molecular and Medelian genetics, reproduction, development, evolution and ecology. Human relevance is stressed. Laboratory work is included. This course is a prerequisite to all other courses in biology. *Prerequisites:* High school biology and chemistry strongly recommended; ACT Natural Science score of 25 or higher recommended for freshmen.

Biology 151. Medical Terminology. **(F)(2)**
The study of the specialized terminology of medical science. Recommended for pre-professional students, biology majors, allied health students, and students in other health-related fields. Those seeking secondary certification cannot count this course toward certification requirements. This course does not meet the biological science requirement for teacher education. (Odd years only.)

Biology 232. General Zoology. **(F)(4)**
A survey of the animal kingdom with emphasis on diversity, evolution, and environmental relationships. Additional topics include energy metabolism, taxonomy, reproduction, population phenomena, behavior and sociology. *Prerequisite:* Biology 111.

Biology 233. General Botany. **(S)(4)**
A survey of the organisms which possess cells walls including: Protoctista, Fungi, and especially the Plants. Emphasis is given to ecological and economic importances, morphology, and evolutionary relationships. The course also involves a brief review of major biological concepts such as cell structure, cell energetics, and classical and molecular genetics. *Prerequisite:* Biology 111.

Biology 321. Field Biology. **(on demand)(3)**
Field investigations including observation, collection, and identification of local fauna and flora are offered under discrete course headings including: Limnology, Ornithology, Entomology, Local Flora, Dendrology, and Mycology. Pertinent field data are collected and analyzed appropriately. Two one-hour lectures and one three-hour laboratory session per week.

Biology 330. Anatomy and Histology. **(F)(4)**
A study of the tissues, organs, and organ systems of vertebrates with emphasis on the human body in health-related sciences. (Odd years only.)

Biology 331. Human Physiology. **(S)(4)**
A study of the functioning of the human organ systems with normal and clinical considerations. *Prerequisites:* Chemistry 112 and 132. (Odd years only.)

Biology 334. Microbiology. **(S)(4)**
An introduction to the classification, morphology, physiology, and genetics of the bacteria, fungi, viruses, and micrometazoans, as well as their roles in nature, health, and industry. Laboratory work stresses techniques for the culture and identification of microorganisms. A portion of the course is devoted to immunology. *Prerequisites:* Biology 361. (Even years only.)

Biology 361. Genetics. **(S)(4)**
An introduction to the principles of inheritance from both classical and molecular perspectives. *Prerequisites:* Biology 232, 233, and Mathematics 131.

Biology 431. Cell Biology. **(F)(3)**
An indepth survey of the structure and function of a wide range of living cells with consideration of biochemical and biophysical bases of this structure and function. Certain characteristics of viruses are also considered. *Prerequisite:* Biology 361. Prior completion of Biology 334 is desirable. (Even years only.)

Biology 436. Evolution. **(S)(3)**
An introduction to the theory and processes of evolutionary biology. Topics include the historical development of the discipline, the principle mechanisms by which it occurs, tempo and mode of speciation, both biological and geological sources of evidence, and the impact of evolutionary thought on biology and society. *Prerequisite:* Biology 361. (Odd years only.)

Biology 441. Ecology. **(F)(4)**
A study of the relationships between organisms and their abiotic and biotic environment including biogeochemical cycles, population dynamics, diversity, communities, and pollution of terrestrial and aquatic ecosystems. Completion of Biology 361 is recommended.

CHEMISTRY

Requirements for a Major: Thirty semester hours of Chemistry including Chemistry 111, 112, 131, 132, 212, 311, 312, 314 and 332. Science cognates consist of Physics 211, 212, 213, 214, 331, Mathematics 241, 242, and General Science 471.

Requirements for a Minor: Twenty-one semester hours including Chemistry 111, 112, 131, 132, 311 and either 212 or 411.

Chemistry 101. Introductory General Chemistry. **(Sum)(4)**
A study of the general principles including laws of definite and multiple proportion, stoichiometry, gases, electronic structure, chemical bonding, periodic relationships, chemical equilibrium and acids/bases. Laboratory activities included. Intended for students interested in a one-semester course in chemistry and recommended for students seeking careers in some allied health fields. *Prerequisite:* A working knowledge of algebra such as is acquired in two years of high school algebra.

Chemistry 111-112. General Chemistry. **(F,S)(3)**
A systematic study of the fundamentals and applications of the experimental and theoretical laws of chemistry. Major topics include nomenclature, stoichiometry, chemical thermodynamics, equilibrium, acid-base reactions, atomic and molecular theory and structure, chemical kinetics and nuclear chemistry. Examples and problems are drawn from all areas of chemistry. Concurrent registration in General Chemistry Laboratory, Chemistry 131-132, is highly recommended for all students. *Prerequisite:* A working knowledge of algebra such as is acquired in two years of high school algebra, or Mathematics 131 (which may be taken concurrently), or a composite ACT score of 21.

Chemistry 131-132. General Chemistry Laboratory. **(F,S)(1)**
Laboratory experiments in general chemistry that illustrate basic principles and develop laboratory skills. Experiments are coordinated with the General Chemistry topics. Inorganic qualitative analysis is included in Chemistry 132. Three hours of laboratory per week. Concurrent registration or previous completion of Chemistry 111-112 is required. No credit may be received for Chemistry Laboratory 131-132 without the simultaneous or prior completion of the corresponding lecture courses Chemistry 111-112.

Chemistry 212. Analytical Chemistry. **(F)(4)**
A study of important volumetric and gravimetric analyses presented from a modern theoretical standpoint. Also an introduction to the study of advanced methods of analysis including some newer instrumentation techniques. *Prerequisites:* Chemistry 112 and 132.

Chemistry 311-312. Organic Chemistry. **(F,S)(4)**
A course in the chemistry of organic compounds. Unitized laboratory work is designed to illustrate the basic principles of organic chemistry. *Prerequisites:* Chemistry 112 and 132.

Chemistry 314. Physical Chemistry Laboratory. **(S)(1)**
A laboratory course designed to accompany Chemistry 332 and Physics 331.

Chemistry 332. Physical Chemistry. **(S)(3)**
A study of atomic structures and chemical bonding in terms of modern quantum theory. Topics include molecular spectra, and chemical kinetics. *Prerequisites:* Mathematics 242 and Physics 212. (Odd years only.)

Chemistry 411. Inorganic Chemistry. **(S)(4)**
A systematic study of the structure, properties and reactions of non-carbon elements, with emphasis on the non-metals and the transition metals. Topics include atomic-molecular structure and bonding, physical methods of investigation, organometallic chemistry and bioinorganic chemistry. *Prerequisite:* Chemistry 312. (Odd years only.)

Chemistry 421. Biochemistry. **(S)(3)**
Study of chemistry, energetics and metabolism of biomolecules, such as, carbohydrates, proteins, lipids, nucleic acids, enzymes and vitamins with reference to living systems. *Prerequisite:* Chemistry 311. (Even years only).

COMPUTER SCIENCE

Requirements for a Minor: Twenty-one semester hours consisting of Mathematics 241, Computer Information Systems 121, 221, 250, 310, 315 and an additional Computer Information Systems course numbered 200 or above. Course descriptions are listed under Computer Information Systems.

ENVIRONMENTAL STUDIES

Requirements for a Minor: Twenty-four hours, to be chosen by the student, the student's major advisor, and an advisor from Environmental Studies. Courses are also listed under the various departments to which they relate. The required core: Environmental Studies 101 and 313, Biology 109 or 111, and Economics 251. The remainder of the courses are to be chosen from other Environmental Studies courses or the following recommended electives: Biology 321, 441; Geography 241; Philosophy 371; Sociology 311, 371, 421 and certain experimental courses.

Environmental Studies 101. Man and the Environment. **(F)(3)**
A multi-disciplinary course in which basic ecological principles are developed and used to show human impact on natural eco-systems. Topics include endangered species, impact of population growth, land use and the management problems, food production and demands.

Environmental Studies 110. Physical Systems of the Environment. **(S)(4)**
A study of the physical environment as the home of man. Emphasis on distribution and interaction of environmental variables (weather, landforms, vegetation, soils, and climate). This course may be used to fulfill the physical science requirement for students seeking teacher certification. Laboratory activities included.

Environmental Studies 313. Environmental Policy. **(F)(3)**
A study of the decision-making processes and the consequences of alternative courses of action on environmental quality. Analyzes the impact of public opinion, the various branches of government and pressure groups on environmental/energy policies at the federal and state levels. *Prerequisites:* Environmental Studies 101 and an introduction political science course, or permission of instructor. (Odd years only.)

Environmental Studies 350. Our Geologic Environment. **(S)(4)**
Significance of regional and local geological features and processes in land use planning. Use of geological information to reduce conflicts in utilization of mineral and water resources and damage due to natural hazards. *Prerequisite:* Environmental Studies 110. (Odd years only.)

GENERAL SCIENCE

Neither a major nor a minor is offered.

General Science 124. Introduction to Physical Therapy. **(S)(2)**
A general orientation to the historical background, philosophy and professional ethics of physical therapy, interprofessional relationships between members of the health care team; concepts of health and disease; overview of the total medical spectrum, medical technology, modalities used in physical therapy, and orientation to clinical service departments and their administration.

General Science 471. Science Seminar. **(S)(1)**
A lecture/discussion of selected topics of interest, lead by faculty members of the Division of Natural Sciences, invited speakers, and student participants. May be repeated once; a student can earn a maximum of two credit hours through this course. All natural science majors must take this course at least once. *Prerequisite:* Natural science major with Junior or Senior standing, or permission of the instructor.

MATHEMATICS

Requirements for a Major: Thirty semester hours numbered 241 and above including Mathematics 241, 242, and two of the following courses: Mathematics 333, 402, 403. Computer Information Systems 121, Physics 211, 212, 213, and 214 are also required. Those seeking secondary certification must include Mathematics 301 and 333.

Requirements for a Minor: Twenty-one semester hours numbered 241 and above to include Mathematics 241, 242, and Computer Information Systems 121.

Mathematics 101. Pre-College Algebra. **(F,S)(3)**
This course is intended for students who need to improve their arithmetic and elementary algebra skills to take other mathematics courses such as Mathematics 131, College Algebra, or Mathematics 110, Applications of Mathematics for College Students. Specific topics to be discussed include numbers, fractions, algebraic expressions, polynomials, factoring, simplifying, laws of exponents, linear equations, simple graphs, and rational expressions.

Mathematics 110. Applications of Mathematics for College Students. **(F,S)(3)**
Mathematics with applications to business, biology, and social sciences. Linear functions and inequalities, geometry, number bases, probability statistics, and consumer mathematics. Emphasis on problem solving techniques.

Mathematics 131. College Algebra. **(F,S,Sum)(3)**
Brief review of intermediate algebra, including rational expressions, radicals, and exponents; solving equations,including quadratic equations; Applications; solving inequalities, including quadratic inequalities; graphing equations; graphs of functions; combining functions and finding inverse functions; exponential and logarithmic functions; systems of equations.

Mathematics 132. Trigonometry. **(F)(2)**
Similar triangles; right triangle trigonometry, trigonometric functions of the general angle; Law of Sines; Law of Cosines; Identities; Inverse trigonometric functions; Complex numbers; Complex exponentials.

Mathematics 203-204. Mathematics for Elementary Teachers. **(F,S)(3)**
Historical development of the numeration system from an intuitive to a logical approach based upon set theory, definitions of the basic operations on whole numbers and their properties extended to integers, rationals, and irrationals; study of why and how of algorithms for all operations; topics in informal geometry. Fulfills Liberal Education Core for K-4 Education majors only.

Mathematics 241. Introduction to Calculus and Analytic Geometry. **(S)(4)**
Inequalities, the straight line, conic sections, limits, the derivative, differentiation of algebraic functions, applications of the derivative, extrema, and the antiderivative. *Prerequisite:* Mathematics 132 or permission of instructor.

Mathematics 242. Intermediate Calculus and Analytic Geometry. (F)(4)
The integral, applications of the integral, logarithmic and exponential functions, trigonometric functions, hyperbolic functions, techniques of integration, L'Hospital's Rule and indeterminate forms, and improper integrals. *Prerequisite:* Mathematics 241.

Mathematics 243. Advanced Calculus and Analytic Geometry. (S)(4)
Topics selected from polar coordinates, vectors, solid analytic geometry, partial differentiation, multiple integration, infinite series, and differential equations. *Prerequisite:* Mathematics 242.

Mathematics 301. Principles of Geometry. (S)(3)
Mathematical Proof: conjunctions, disjunction, implications, truth tables. Proofs using triangles, polygons, and circles. Transformations, area, space geometry, and non-euclidean geometries. *Prerequisite:* Mathematics 132 or 204. (Even years only.)

Mathematics 331. Introduction to Linear Algebra. (F)(3)
Vector algebra in Euclidean spaces, lines and planes in space, matrices and linear equations, abstract vector spaces. *Prerequisites:* Math 131 and permission of the instructor. (Odd years only.)

Mathematics 332. Linear Algebra. (S)(3)
Vector spaces, subspaces, linear independence, linear transformations, determinants, inner product spaces, orthogonality, and unitary transformations. *Prerequisite:* Mathematics 331. (Odd years only.)

Mathematics 333. Modern Algebra. (on demand)(3)
An introduction to abstract algebra including groups, subgroups, quotient groups, isomorphism theorems, rings, and ideals. *Prerequisite:* Mathematics 241 or permission of the instructor.

Mathematics 372. Probability and Mathematics Statistics. (F)(3)
Theoretical probability using point set approach, probability as a frequency ratio; probability for finite sample spaces; conditional probability; joint and continuous distributions, binomial distribution; Baye's theorem; statistical applications of probability; theory of sampling and variance. *Prerequisites:* Mathematics 242, which may be taken concurrently, and permission of the instructor. (Even years only.)

Mathematics 402. Functions of a Complex Variable. (on demand)(3)
Complex numbers, analytic functions, elementary functions of a complex variable. Cauchy's formula, Liouville's theorem, Laurent's series, residues, contour integration, conformal mapping, physical applications. (Even years only.)

Mathematics 403. Introduction to Analysis. (on demand)(3)
Sets and functions, topological ideas, LUB property, real sequences, continuity, mean value theorems, integration, definite integrals, Taylor's theorems, improper integrals, convergence of infinite series, power series, improper integrals with parameter. (Even years only.)

Mathematics 471. Differential Equations. (S)(3)
Differential equations of first order and first degree, differential equations of first order and higher degree, differential operators and linear differential equations, reduction of order. *Prerequisite:* Mathematics 242. (Even years only.)

PHYSICS

Requirements for a Major: Physics 211, 212, 213, 214, 312, 331, 401, and 411 plus an additional eight hours of upper level physics courses. Chemistry 332 may substitute for Physics 401. Required science cognates include Chemistry 111, 112, 131, and 132; Mathematics 241, 242, and 243; and General Science 471.

Requirements for a Minor: A minimum of twenty-one semester hours of Physics numbered 211 and above, including Physics 211, 212, 213, 214, 401, and either 312 or 331.

Requirements for Secondary Certification: A teacher education student who selects a major in physics is required to complete Biology 111 or 109 and 110 as well as Physics 105 or Environmental Studies 110. Those who select a minor in physics are required to complete one of the following: the area of concentration in science; the area of concentration in mathematics-physical science; or a teaching major in either mathematics, biology, or chemistry.

Physics 105. Astronomy. (S)(4)
An introduction to the elements of astronomy. Constellation identification, telescope operation, solar features, life and death of stars, galaxies and cosmology. Experiments and activities will illustrate telescope use, star and constellation identification, analysis of data from photographs and spectrum charts, etc.

Physics 111-112. Elements of General Physics. **(F,S)(3)**
These courses are intended for life science and non-science students. They may be taken separately and in any order. Physics 111 topics include mechanics of motion; the properties of solids, liquids, and gases; and thermal phenomena. Physics 112 topics include wave motion and vibrations; electricity and magnetism; optics; and selected topics in modern physics. Does not count toward a minor. *Prerequisite:* High school algebra or permission of the instructor.

Physics 113-114. Elements of General Physics Laboratory. **(F,S)(1)**
Laboratory experiments accompanying Physics 111 and 112 respectively to illustrate basic principles and develop laboratory skills. No credit may be received for these laboratory courses without concurrent or prior completion of the corresponding lecture course.

Physics 211-212. General Physics. **(F,S)(4)**
Mechanics of solids, liquids and gases; laws of thermodynamics; kinetic-molecular theory, vibrating bodies; wave physics; laws of Coulomb, Faraday, Ampere, Ohm, Joule, and Lenz; electromagnetism; optics. *Pre- or Corequisite:* Mathematics 242.

Physics 213-214. General Physics Laboratory. **(F,S)(1)**
A general physics laboratory course involving experiments in mechanics, heat, sound, electricity, magnetism, and optics. Experiments are coordinated with Physics 211-212.

Physics 232. Basic Electronics Laboratory. **(on demand)(3)**
Theory and applications of solid state devices, power supplies, A.C. and D.C. circuits and diagrams, computer interfacing, control circuits. *Pre- or Corequisite:* Physics 112.

Physics 303. Relativity. **(on demand)(3)**
Einstein's Special Theory of Relativity, including relativistic kinematics and relativistic momentum and energy. *Prerequisites:* Mathematics 131 and 132.

Physics 310. Statics. **(S)(3)**
Study of force systems on bodies at rest. Applications of conditions of equilibrium to coplanar and space systems. Virtual work, centroids, moments of inertia, and products of inertia. *Prerequisite:* Physics 211. (Even years only.)

Physics 312. Electricity and Magnetism. **(F)(4)**
Electric charges, forces, field and potential with associated magnetic forces and fields; dielectric theory; capacitance, inductance, resonance, and oscillations; series and parallel DC and AC circuits; measuring instruments; Maxwell's equations and electromagnetic waves. Four lecture hours per week. Strongly recommend prior enrollment in Physics 232. *Prerequisites:* Physics 212 and Mathematics 243 and 471. (Odd years only.)

Physics 331. Heat and Thermodynamics. **(F)(3)**
Thermodynamic systems and processes, equations of state, PVT surfaces and real substances, laws of thermodynamics, energy equations, enthalpy, entropy, thermodynamic potentials, application of thermodynamics to simple systems. *Prerequisites:* Physics 212 and Mathematics 243. (Odd years only.)

Physics 401. Principles of Modern Physics. **(F)(3)**
Elementary concepts of quantum mechanics, selected topics in atomic and nuclear physics. *Prerequisite:* Physics 212 and Mathematics 242. (Even years only.)

Physics 411. Classical Mechanics. **(S)(3)**
Motion of a particle, systems of particles, rigid bodies; moving coordinate systems; Lagrange's equations; small oscillations. *Prerequisite:* Mathematics 243. (Odd years only.)

Physics 420. Experimental Physics. **(S)(2)**
An upper-level physics laboratory course focusing on fundamental physical constants. Includes computer simulations. The class consists of one lecture hour and one laboratory hour. *Prerequisites:* Physics 211, 212, 213 and 214. (Even years only.)

SCIENCE EDUCATION MAJORS (SPECIALIZATION COMPONENT FOR CERTIFICATION)

Students who wish to teach secondary science may choose one of the following three programs: (A) A Major (30 hours) in one of the sciences plus a certifiable minor in one of the other sciences or mathematics; (B) A mathematics-physical science area of certification; (C) A science area of concentration. Those seeking certification in the middle grades also have available an area of specialization in science.

All students seeking secondary certification in biology, chemistry or physics must take at least sixteen semester hours in biology, chemistry, physics or environmental studies outside the major requirements.

1. AREA OF CONCENTRATION IN MATHEMATICS-PHYSICAL SCIENCE

A total of 48 semester hours are required including:

		Semester Hours
CHEM 111-112	General Chemistry	6
CHEM 131-132	General Chemistry Laboratory	2
CHEM 212	Quantitative Analysis	
OR		
CHEM 411	Inorganic Chemistry	4
CHEM 311	Organic Chemistry	4
MATH 241-242	Calculus and Analytic Geometry	8
MATH 331	Introduction to Linear Algebra	3
	Mathematics elective	4
PHYS 211-212	General Physics	8
PHYS 213-214	General Physics Laboratory	2
	Physics electives	7
		48

At least 18 semester hours must be in courses numbered 300 or above. General Science 471 is highly recommended and may be counted in this 18 hour requirement. Students who choose this area are urged to exceed the minimum semester hour requirement and complete 21 semester hours in each of two of the three fields (chemistry, mathematics, and physics).

A major or additional minors may be taken in the area. A teacher with such preparation would be certified only to teach in the major or minor disciplines and all general interdisciplinary science courses at the secondary level.

2. AREA OF CONCENTRATION IN SCIENCE

A total of 48 semester hours are required including:

		Semester Hours
BIOL 111	General Biology	4
BIOL 232	General Zoology	
OR		
BIOL 330	Anatomy and Histology	4
BIOL 233	General Botany	
OR		
BIOL 321	Field Biology	3-4
CHEM 111-112	General Chemistry	6
CHEM 131	General Chemistry Laboratory	1
ENVS 110	Physical Systems of the Environment	4
ENVS 350	Man's Geologic Environment	4
GNSC 471	Science Seminar	1
PHYS 211-212	General Physics	8
PHYS 213	General Physics Laboratory	1
		36-37

Also included must be a minor in either biology, chemistry or physics. At least 18 semester hours must be in courses numbered 300 or above.

3. TEACHING MINORS

A teacher education student who selects a minor in biology, chemistry or physics is required to complete one of the following: the area of concentration in science; the area of concentration in mathematics-physical science; or a teaching major in either mathematics, biology, chemistry, or physics.

PRE-PROFESSIONAL PROGRAMS

Students who have career interests in medicine, dentistry, veterinary medicine, optometry, or medical technology may fulfill the admissions requirements of respective professional schools by pursuing a Bachelor's degree in biology or chemistry. Students may also arrange for transfer to a professional school after three years (ninety-six semester hours) at Union College. Upon completion of one year of study at the professional school, students will be awarded their Bachelor's degree from Union College. (See section on Combined Degrees.)

Since admission requirements of professional schools vary considerably, all students having an interest in these fields are advised to select the professional school they wish to attend and choose pre-professional courses accordingly. An academic advisor will be assigned who, working closely with the student, will plan a program of study and assist with the admissions process into the professional school of their choice. For details of specific programs, the following faculty members should be consulted:

Dentistry — Chandler
Engineering — Carter, Henshaw
Medical Technology — Chandler
Medicine — Chandler
Optometry — Swanson
Pharmacy — Swanson, Weeks
Physical Therapy — Chandler
Veterinary Medicine — Chandler

PHYSICAL THERAPY

Union College provides a two year curriculum which allows students to complete courses required for entrance into the Physical Therapists Assistant (PTA) program at Jefferson Community College in Louisville or the Physical Therapy Program at the University of Kentucky in Lexington.

Union College and Jefferson Community College have entered into an agreement whereby students from southeastern Kentucky may work toward an Associate of Applied Science degree and qualify to be a PTA. The student will take courses at Union College during the first two years and complete the program at Jefferson Community College during the third year. Jefferson Community College reserves two positions annually for qualified Union College students. To qualify for graduation from this program, a student must also present a Red Cross First Aid Certificate earned within the last four years. Students who enter this program will be asked to state in writing their intent to return to southeastern Kentucky to work as PTA's.

The Department of Physical Therapy at the University of Kentucky has approved Union's coursework for the two year Pre-Professional Phase of their program. Admission to the Professional Phase at the University of Kentucky is based on completion and is not guaranteed.

DEGREE IN MEDICAL TECHNOLOGY

Union College has cooperative agreements with University of Louisville and The Methodist Hospital of Kentucky, Pikeville, in which the student attends Union College for three years and, upon acceptance, enters the cooperating institution and receives clinical training in medical technology for twelve months. On satisfactory completion of the program the student is awarded a bachelor's degree in medical technology and should be qualified for a national certifying examination.

COMBINED DEGREE IN ENGINEERING

A Cooperative "Three-Two Plan" has been worked out with the University of Kentucky in which the student attends Union College for three years pursuing certain pre-engineering courses in addition to a solid program in liberal arts. At the end of the three years, upon the recommendation of Union College, the student enters the cooperating university or any accredited engineering school as a junior and in two additional years completes all the requirements for the B.S. degree in Engineering. Both the B.A. or B.S. from Union College and a B.S. in Engineering from the cooperating university are awarded at the end of the fifth year.

DIVISION OF SOCIAL SCIENCES

Van Michael Leslie, *Chairperson*
Appalachian Studies and Appalachian Semester
Anthropology — Behavioral Sciences — Criminal Justice — Geography
History — Political Science — Pre-Law — Psychology
Sociology — Area in Social Studies Education

ANTHROPOLOGY

Anthropology 221. Introduction to Cultural Anthropology. **(on demand)(3)**
A survey of the archaeological and biological history of mankind as it relates to the development of man and his culture, with comparisons drawn between the cultures of primitive people and Western Civilizations.

Anthropology 251. North American Indian Cultures. **(S)(3)**
The historical development of North American Indian technology, and the cross-cultural study of four diverse Indian cultures at the time of White contact, will be the main focus of this course. Economics, ecology, technology, role relations, medicine, politics and conflict will be the focus of study in each culture. (Even years only.)

BEHAVIORAL SCIENCES

Behavioral Sciences 245 and 341 are "core" courses in the Behavioral Sciences curriculum. Both courses are required as a part of the Psychology and Sociology majors or minors. Neither course is offered on an independent study basis.

Behavioral Science 245. Basic Statistics: Theory and Application. **(F,S)(3)**
Basic concepts of descriptive and inferential statistics, illustrations of applications in the fields of sociology, psychology, business, education, and natural science. Students should demonstrate a proficiency in basic mathematics and algebra as determined by grades in Mathematics 100 or on a placement test.

Behavioral Science 341. Methods of Behavioral Science Research. **(S)(3)**
Techniques and philosophies of behavioral science research including experimental, quasiexperimental, survey, evaluation, field, and unobtrusive designs for the collection and interpretation of information.

Behavioral Science 495. Independent Study. **(on demand)(1-3)**

CRIMINAL JUSTICE

Requirements for a Major: Thirty semester hours of course work including the following: Criminal Justice 101, 201, and 301; Political Science 307 and 401; Sociology 363 and 464; and an additional nine semester hours chosen from the following: Criminal Justice 205 and 387, Psychology 202, 352, Sociology 231, or certain experimental courses.

Requirements for a Minor: Twenty-one semester hours of course work including the following: Criminal Justice 101, 201, and 301; Political Science 307; Sociology 363; and an additional six semester hours chosen from the following: Criminal Justice 205 and 387, Political Science 401, Psychology 202, 352, Sociology 231, 464, or certain experimental courses.

Associate of Applied Science Degree in Criminal Justice

General Education Requirements		Semester Hours
BHSC 245	Basic Statistics: Theory and Application	3
ENGL 111	Freshman Composition I	3
ENGL 112	Freshman Composition and Literature	3
ENGL 212	Western Literature	3
HIST 111	World History to 1500	3
OR		
HIST 112	World History since 1500	3
OR		
HIST 201	United States History to 1865	3
OR		
HIST 202	United State History since 1865	3
PSYH 111	Introduction to Psychology	3
SOCI 131	Introduction to Sociology	3
Union College Liberal Core Science Requirement (IV A., B., or C. with lab)		4
Union College Liberal Core Humanities Requirement (II B., C., or D.)		3
Elective Hours		6
		34

Criminal Justice Requirements		Semester Hours
CRJU 101	Introduction to Criminal Justice	3
CRJU 201	Criminal Procedure	3
CRJU 205	Introduction to Criminal Law	3
CRJU 301	Security Administration and Crime Prevention	3
Select at least six of the following courses:		
CRJU 387	Criminal Justice Practicum	3
PLSC 307	Criminal Justice Administration	3
PLSC 401	Public Policy and Criminal Justice	3
PSYH 202	Forensic Psychology	3
PSYH 352	Abnormal Psychology	3
SOCI 231	Juvenile Delinquency	3
SOCI 363	Sociology of Corrections	3
SOCI 464	Sociology of Deviance and Criminology	3
		30
	Total Associate Degree Hours	64

Criminal Justice 101. Introduction to Criminal Justice. (F)(3)
An introduction to the criminal justice process including the areas of criminal justice administration, the police, the courts, and corrections.

Criminal Justice 201. Criminal Procedure. (F)(3)
The law pertaining to the rights of defendants to criminal charges including: theories of responsibility, exclamatory matters, criminal trial procedures, classifications of evidence, presumptions, relevance, expert testimony, testimonial privileges, hearsay, confessions, and impeachment.

Criminal Justice 205. Introduction to Criminal Law. (S)(3)
An introduction to criminal law including the origins and principles of criminal law, criminal liability, and crimes against persons and property.

Criminal Justice 301. Security Administration and Crime Prevention. (S)(3)
The study of the techniques and devices utilized by private industry, commercial and retail stores, and community agencies for providing on site security and crime prevention. *Prerequisite:* Criminal Justice 101 or permission of the instructor.

Criminal Justice 387. Criminal Justice Practicum. (on demand)(3)
Criminal justice practicum consists of an eighty hour field placement in one of the areas of criminal justice: corrections, courts, or police. *Prerequisite:* Criminal Justice 101 or permission of the instructor.

Please see the relevant sections of the catalog under Political Science, Psychology, and Sociology for a description of the remaining courses in the Criminal Justice degree programs.

GEOGRAPHY

Geography 101. Introduction to Geography. (S)(3)
Emphasis on the concepts of place, region, spatial interaction, landscape interpretation and landscape evolution. Deals with the graphic media of geography — maps, graphs, scale models. Case studies illustrate geographic principles to familiarize students with various parts of the world. For future teachers as well as students of the natural and social sciences.

Geography 241. Geography of Appalachia. (on demand)(3)
A systematic analysis of the physical, demographic, economic, and cultural characteristics of the Appalachian landscape, with emphasis on the great diversity within the region.

HISTORY

Requirements for a Major: Thirty semester hours of history including History 111, 112 and 300. At least 12 hours must be U.S. History and 12 hours must be non-U.S. History. Military Science 202 may be counted toward the U.S. history requirement. Humanities 320 may also be counted toward the history major or minor.

Requirements for a Minor: Twenty-one semester hours in history including History 111 and 112. At least 9 hours must be in U.S. History and 9 in non-U.S. History. Military Science 202 may be counted toward the U.S. history requirement.

History 111. World History to 1500. (F,S)(3)
Survey of the institutions, culture, and thought of major world civilizations to 1500. The course will focus primarily on Western civilization, with some attention given to the development of China, India, the Americas, and Africa.

History 112. World History since 1500. (F,S)(3)
Survey of world history during the period of European expansion and colonial domination.

History 201. United States History to 1865. (F)(3)
A survey of American history through the Civil War, tracing the development of the American nation. Stress is placed on the nature of colonial society, the American Revolution, the creation of a national government, the influence of Jackson, and the Civil War.

History 202. United States History since 1865. (S)(3)
A survey of American history to present times tracing the rise of America as a world power. Emphasis is on the changes of industrialization, the loss of civil rights, protest and reform, the Depression, and American influence in the world.

History 233. History of Appalachia. (F)(3)
A survey of the region from settlement to the present, with emphasis on the period since the Civil War. The course examines the diversity of historical development within the region, and the paradox of relative isolation along with integrating aspects of industrialization and modernization.

History 241. American Economic History. (F)(3)
Examination of the economic forces shaping the development of the American nation. Topical consideration of mercantilism, the rise of capitalism, slavery, the shocks of industrialization, the New Deal, and criticism of American economic power and capitalism. (Odd years only.)

History 300. Historical Research and Methods. (F)(3)
Gathering and criticism of data; bibliographies and aids; problems in historiography, composition analysis, and the final monograph. *Prerequisite:* A previous 100 or 200 level course in history, or permission of the instructor.

History 311. United States Colonial and Revolutionary Eras (1600-1815). (S)(3)
An examination of the conflicting interpretations of these eras. A topical treatment of colonial society and culture, the causes and consequences of the Revolution, the Constitution, and the early national period. (Even years only.) *Prerequisite:* A previous 100 or 200 level course in history, or permission of the instructor.

History 312. Jacksonian Era & the Civil War (1815-1865). (S)(3)
Emphasis on the conflicting historical interpretations of Jacksonian American and the Civil War. Topics include the Second Political Party System, slavery, expansion, and the causes of the Civil War. (Even years only.) *Prerequisite:* A previous 100 or 200 level course in history, or permission of the instructor.

History 313. Industrial America (1865-1919). **(S)(3)**
A consideration of Reconstruction, the loss of civil rights, industrialization and urbanization, Populist and Progressive reforms, World War I, and historiography. (Odd years only.) *Prerequisite:* A previous 100 or 200 level course in history, or permission of the instructor.

History 323. Latin America. **(on demand)(3)**
Survey of Latin American history from the discoveries by Columbus to the present. *Prerequisite:* A previous 100 or 200 level course in history, or permission of the instructor.

History 341. History of Britain to 1688. **(F)(3)**
British history from the Roman occupation to the Glorious Revolution with emphasis on the development of the English people and state. *Prerequisite:* A previous 100 or 200 level course in history, or permission of the instructor.

History 342. History of Britain since 1688. **(S)(3)**
A study of British history from the Glorious Revolution to the present with emphasis on political and institutional development and the role of Britain in the world, including the rise and decline of the British empire. *Prerequisite:* A previous 100 or 200 level course in history, or permission of the instructor.

History 345. American Constitutional History: Civil and Political Rights. **(on demand)(3)**
An examination of the influence of the Supreme Court with primary stress given to political and civil rights. Major consideration is the modern and Warren Supreme Court. *Prerequisite:* A previous 100 or 200 level course in history, or permission of the instructor.

History 351. Europe to 1815. **(on demand)(3)**
History of Europe from 1350 to 1815. The course covers the intellectual, political, and social history of Europe from the Renaissance to the era of the French Revolution and Napoleon. *Prerequisite:* A previous 100 or 200 level course in history, or permission of the instructor.

History 352. Europe since 1815. **(S)(3)**
History of Europe from 1815 to the present. The course covers the intellectual, political, and social history of Europe from the Congress of Vienna to the contemporary era of European integration. Special focus will be given to the process of modernization, the world wars, and the course of European history since 1945. (Odd years only.) *Prerequisite:* A previous 100 or 200 level course in history, or permission of the instructor.

History 361. Middle East History. **(F)(3)**
An introduction to the history of the Middle East from the beginnings of Islam to the present day. Focus will be on Islamic institutions and culture, the modernization of Middle Eastern governments, the struggle by various people for political independence, the course of the Arab-Israeli conflict, and contemporary developments in the region. (Odd years only.) *Prerequisite:* A previous 100 or 200 level course in history, or permission of the instructor.

History 421. The Middle Period (1821-1850). **(S)(3)**
A detailed examination of Jackson, politics, and the culture of the period. Stress is placed on reform and the predominance of change in American life, and conflicting interpretations of the period. (Odd years only.) *Prerequisite:* A previous 100 or 200 level course in history, or permission of the instructor.

History 446. History of Russia. **(Sum)(3)**
Russian history since 1689. Survey of the political and social changes in Russia from the time of Peter the Great to the present, including an extensive review of the origins and development of the modern Soviet state. (Even years only.) *Prerequisite:* A previous 100 or 200 level course in history, or permission of the instructor.

History 470. Twentieth Century America. **(F)(3)**
Selected topics on the nation's history since 1900, including the New Deal, Viet Nam, and Watergate. (Even years only.) *Prerequisite:* A previous 100 or 200 level course in history, or permission of the instructor.

History 495. Independent Study. **(F,S,Sum)(1-3)**

HISTORY AND POLITICAL SCIENCE
AREA IN HISTORY AND POLITICAL SCIENCE

Requirements for a Major: Thirty-nine semester hours including at least twenty-one semester hours of history, twelve semester hours of political science, and six additional elective hours.

Specific requirements include: History 111, 112, 201, 202, 300, at least one additional course in United States history, at least one additional course in non-United States history, and Political Science 101. Military Science 202 may count toward the United States history requirement. Humanities 320 may count toward the non-United States history requirement. An additional nine hours are required in political science. Environmental Studies 313 may count toward the political science requirement. Certain experimental courses may count toward the requirements for the United States history, non-United States history, and political science requirements. The remaining six hours of electives may be chosen from any of the courses not used to meet a previous requirement toward the major. Teacher certification in the area of history and political science is available; students should consult with an academic advisor for more information.

POLITICAL SCIENCE

Requirements for a Minor: Twenty-one semester hours, including Behavioral Science 341 and Political Science 101. Environmental Studies 313 may count toward the minor.

Political Science 101. American National Government. (F)(3)
A survey of the principal characteristics of the American National Government; examination of constitutional principles, federalism, political participation, institutions of government, and the politics of public policy.

Political Science 231. International Politics. (F)(3)
Basic historical, economic, and cultural factors in the international political system. The rise and development of Western nation-state systems; the foundations of national power; sovereignty, nationalism and imperialism; the development of international organizations and cooperation.

Political Science 305. American Political Parties and Politics. (F)(3)
The organization, functions, and practices of political parties in the United States, their methods of influencing public opinion, their role in nominations and elections, and their impact on popular government. (Odd years only.)

Political Science 307. Criminal Justice Administration. (S)(3)
A study of the administrative principles and management practices of criminal justice organizations including: the police, courts, and correctional facilities.

Political Science 308. The American Presidency. (F)(3)
Analysis of the institution of the presidency, its functions, formal and informal relationships, and its limitations within the American political system. (Even years only.)

Political Science 401. Public Policy and Criminal Justice. (F)(3)
The study of policy questions in the criminal justice system. Particular emphasis is placed on a detailed examination of the major policy issues that link crime, politics, administration, and the law.

Political Science 460. Political Philosophy. (S)(3)
The chronological and thematic examination of perennial issues in political science including liberty, justice, equality, political obligation, and political authority as developed over time by the political philosophy of Greek and Latin philosophers, Medieval thinkers, and modern theorists representing various world-wide perspectives. (Odd years only.)

Political Science 461. Administrative Management. (on demand)(3)
Methods of applying administrative principles to the operation of government agencies. Relevance of administrative theory to management procedures in government; the relation of policy formation and implementation to the administrative policy system environment.

PSYCHOLOGY

Requirements for a Major: Thirty semester hours, including Behavioral Sciences 245, 341, Psychology 111, 352, and 460.

Requirements for a Minor: Twenty-one semester hours including Behavioral Sciences 245, 341, and Psychology 111.

Psychology 111. Introduction to Psychology. (F,S)(3)
Emphasis on the study of human behavior and the ability of the individual to make adjustments to his environment.

Psychology 201. Psychology of Personal Adjustment. **(on demand)(3)**
Factors determining the development of personality, principles of mental health, and problems involved in the dynamics of human adjustment.

Psychology 202. Forensic Psychology. **(F)(3)**
An application of psychological principles to the criminal justice system. Topics include: the relationship between the legal and mental health systems, the assessment of criminal responsibility, the psychodynamics of criminal behavior, and intervention strategies.

Psychology 210. Child Development. **(on demand)(3)**
Emphasis on recent child development theories with laboratory experiences with children on a one-to-one basis.

Psychology 330. Social Psychology. **(F)(3)**
Major emphasis is on problems involved in human relations. Designed to help the individual to understand and adjust to group thought and action. Attention is given to recent psychological and sociological research in human relations. *Prerequisite:* Psychology 111 or permission of the instructor.

Psychology 352. Abnormal Psychology. **(S)(3)**
Mental disorder, changing conceptions of normality, the more common forms of mental disorders, their psychological interpretation, principles of effective mental hygiene, and contemporary approaches to psychotherapy. *Prerequisite:* Psychology 111 or permission of the instructor.

Psychology 361. Psychology of Learning. **(on demand)(3)**
Basic concepts and principles of learning with emphasis upon human and animal laboratory studies. *Prerequisite:* Psychology 111 or permission of the instructor.

Psychology 402. Counseling Theories and Techniques. **(S)(3)**
Basic theories, types, and techniques of counseling. Practice in individual and group techniques of interviewing. Permission of the instructor required. *Prerequisite:* Psychology 111 or permission of the instructor.

Psychology 410. Psychology of Addictions. **(S,Sum)(3)**
Major emphasis is on factors determining the development of addictions, including physiological, emotional, cognitive, and behavioral dimensions of the addictive process. Also emphasizes intervention and treatment strategies for the various types of chemical dependency and substance abuse. *Prerequisite:* Psychology 111 or permission of the instructor.

Psychology 460. Theories of Personality. **(F)(3)**
Nature of personality structure and dynamics. Classical psychoanalysis, social psychological and stimulus-response theories included. *Prerequisite:* Psychology 111 or permission of the instructor.

Psychology 461. History and Systems of Psychology. **(on demand)(3)**
Origins of psychological thought within science and philosophy, tracing the development of systems and theories within German, British, and American psychology. *Prerequisite:* Psychology 111 or permission of the instructor.

Psychology 470. Theories of Learning. **(S)(3)**
Basic fundamentals of learning theory as formulated by such theorists as Thorndike, Pavlov, Guthrie, Skinner, and Hull. Attention is given to the empirical support of various theories. *Prerequisite:* Psychology 111 or permission of the instructor.

Psychology 495. Independent Study. **(F,S,Sum)(1-3)**

SOCIOLOGY

Requirements for a Major: Thirty semester hours, including Behavioral Sciences 245, 341, Sociology 131, 460. Psychology 330 is strongly recommended and will be credited toward the thirty semester hour requirement.

Requirements for a Minor: Twenty-one semester hours, including Behavioral Sciences 245, 341, Sociology 131. Psychology 330 is strongly recommended and will be credited toward the twenty-one semester hour requirement.

Appalachian Semester courses, Sociology 349 and 422, may count toward both the major and minor.

Sociology 131. Introduction to Sociology. **(F,S)(3)**
The social interaction of persons and groups; man's cultural heritage and social nature; analysis and principles of group life; forms of collective behavior; the process of socialization; social structure, interaction and reorganization, including race relations and social class; a variety of social institutions; the family, education, religion; the economy and politics; social change.

Sociology 231. Juvenile Delinquency. **(F)(3)**
An introduction to the study of juvenile delinquency and the juvenile justice system. The course investigates the topics of juvenile law, theories of causation procedural issues, and their interrelationships.

Sociology 241. Sociology of Appalachia. **(F,S)(3)**
Uses the basic principles and concepts of sociology to study life in the Appalachian region. The areas of study include socio-economic class, culture, folklore, social institutions, the family, religion, schooling, poverty, and development.

Sociology 251. Current Socio-Economic Problems. **(F)(3)**
Scientific understanding of social problems; problem areas in contemporary American society; types of personal disorders and role impairment; the influences of social change on the structure of society. Attention is also given to the question of why certain forms of deviance become defined as social problems.

Sociology 255. Selected Topics in Political Sociology. **(on demand)(3)**
A series of seminars and small group discussions organized around a set of case readings in the area.

Sociology 271. Marriage and the Family. **(F,S)(3)**
Background experiences in the lives of young people leading up to courtship and marriage; the establishment and functioning of the home, with related biological and social factors. Emphasis upon changing attitudes toward family relationships, some of the problems involved and suggested solutions.

Sociology 311. Human Ecology. **(S)(3)**
Population distribution, growth, composition, and its relevance to current economic, social, and political problems. *Prerequisite:* Sociology 131 or permission of the instructor.

Sociology 353. Minority Groups. **(F)(3)**
A social scientific study of the origin and organization of minorities and their effect on society, with particular emphasis on minorities in the United States. *Prerequisite:* Sociology 131 or permission of the instructor.

Sociology 363. Sociology of Corrections. **(S)(3)**
The study of the origins and organization of corrections in the United States. Topics include correctional ideologies, the social structure of various types of correctional facilities, probation, and parole. *Prerequisite:* Sociology 131 or permission of the instructor.

Sociology 371. Social Institutions. **(on demand)(3)**
An examination of the structure and function of social institutions, with primary orientation within the American milieu. Particular emphasis on socialization, stratification, social change, and relations among institutions. *Prerequisite:* Sociology 131 or permission of the instructor.

Sociology 372. Social Stratification and Inequality. **(S)(3)**
An analysis of the social stratification system including the concepts of class, status, prestige, income, and wealth; and, the impact of social stratification on American society. (Odd years only.) *Prerequisite:* Sociology 131 or permission of the instructor.

Sociology 387. Field Practicum in Sociology. **(on demand)(3)**
The field practicum in sociology is designed to give social science majors practical experience in a professional field related to sociology. Field placements will include such diverse experiences as working in the county clerk's office, pre-trial services, social services and other programs. *Prerequisites:* Behavioral Science 245, and either Anthropology 221, Psychology 111 or Sociology 131, and permission of the instructor.

Sociology 421. Rural and Urban Sociology. **(F)(3)**
Comparative and interrelated study of urban and rural life considering physical, institutional, social and economic factors of modern life in cities and in the countryside. (Even years only.) *Prerequisite:* Sociology 131 or permission of the instructor.

Sociology 433. Social Change. **(on demand)(3)**
This course introduces students to the problems of development and change. Examples will be drawn from Third World models of development, nationalism, imperialism, environmentalism, and human rights. The course is interdisciplinary, with emphasis on historical, economic, environmental and sociological aspects. *Prerequisite:* Sociology 131 or permission of the instructor.

Sociology 460. Sociological Theory. **(F)(3)**
The major theories which have proved useful in investigating the nature of society are examined as cultural products, ideologies, and scientific models. Special attention is given to major figures such as Comte, Durkheim, Weber, Merton, C. Wright Mills, White and Sorokin in the emergence and convergence of their theoretical development. Lecture and discussion in a seminar setting. *Prerequisite:* Sociology 131 or permission of the instructor.

Sociology 464. Sociology of Deviance and Criminology. **(S)(3)**
This course will develop an understanding of the social definitions and implications of deviance. Various types of deviant behavior and relevant theories of society will be addressed. *Prerequisite:* Sociology 131 or permission of the instructor.

Sociology 470. Collective Behavior and Social Movements. **(Sum)(3)**
An analysis of the theoretical interpretations made by social and behavioral scientists of individual and collective behavior in crowds, demonstrations, disasters, social movements, riots, and political revolutions in Western Culture focusing on the United States from 1870 to the present. *Prerequisite:* Sociology 131 or permission of the instructor.

Sociology 495. Independent Study. **(on demand)(1-3)**

APPALACHIAN STUDIES

An interdisciplinary minor in Appalachian Studies is available to interested students. Courses involving the study of Appalachia may be found throughout this catalog.

Requirements for a Minor. Twenty-one semester hours chosen from the following: Behavioral Sciences 341 or History 300; Environmental Studies 313 and 469; Geography 241; History 233; and Sociology 241. Participation in the Appalachian Semester may also be counted toward a minor in Appalachian Studies.

APPALACHIAN SEMESTER

Deborah J. Thompson, *Director*

The Appalachian Semester offers mature students a unique educational opportunity to devote their full time to studying the Appalachian region — its strengths, its problems, and its challenges. The program's objectives are to promote in-depth awareness and understanding of life in Appalachia from an interdisciplinary point of view. This comprehensive academic program, which includes both classroom and field experience, provides 15 semester hours of credit in a variety of disciplines and offers the student the opportunity to become actively involved in a unique part of American society.

The following courses comprise the Appalachian Semester. Students must complete an application with the Director prior to enrollment in this program.

Sociology 345. Historical and Contemporary Appalachian Culture. **(F)(3)**
A multidisciplinary introduction, within the context of regional unity and diversity, to mountain society, folk culture, literature, music, religion, ethnic groups, geography and history.

Sociology 349. Political Economy of Appalachia. **(F)(3)**
An analysis of the political economy of the Appalachian Region, e.g., settlement patterns; subsistence and commercial agriculture; timber, coal, textiles, and tourism; land ownership and land use; the corporate sector; taxation; government programs and planning; and issues of external and internal power relationships.

Sociology 422. Social Institutions in Appalachia. **(F)(3)**
A theoretical and observational analysis of the cultural and social characteristics of the Appalachian Region. Special emphasis will be given to the contemporary Appalachian culture and to the interaction of mountain people with the broader forces of social change at work in modern America.

Sociology 487. Appalachian Field Practicum/Research. **(F)(6)**
Each Appalachian Semester student, in consultation with the program coordinator, will develop a specialized field experience. This course may be either experiential learning in a service or institutional setting, or directed study on a regional topic. Academic credit is available in English, history, sociology, anthropology, psychology, or social work, and in other disciplines on a negotiated basis as necessary and feasible.

AREA IN SOCIAL STUDIES

An area of concentration in social studies consists of a minimum of forty-eight semester hours to include: a minimum of seven courses in history for a total of at least twenty-one semester hours with at least three courses in United States history, three courses in non-U.S. Western history, and one course in non-Western history. History courses numbered 381 and 481 are special topics courses that may count toward either the U.S. history or the non-U.S. Western history requirement depending on course content.

The remaining twenty-seven semester hours credit may be selected from certain courses in the areas of anthropology, economics, geography, political science, psychology, and sociology. Social studies subjects in which a student has completed nine or more semester hours shall be designated as concentration areas on the certificate.

Area concentrations are available in the fields of: economics, political science, psychology, and sociology. Students should consult with an advisor for all details and program requirements, and are responsible for meeting all social studies curriculum plan requirements.

PRE-LAW

Most law school admissions committees require a student to have a four-year college program leading to the Bachelor of Arts or Bachelor of Science degree plus an acceptable score on the Law School Admissions Test. Regardless of the major, elective hours in accounting, business, history, political science, philosophy, and English prove helpful. Students should consult with a pre-law advisor no later than the junior year.

EDUCATION CERTIFICATION IN THE SOCIAL SCIENCES

Students interested in pursuing education certification in one of the social science disciplines or areas of concentration are urged to consult with the appropriate faculty in both the department of education, and the division of social sciences for guidance in the scheduling and sequencing of courses.

CAMPUS INFORMATION

Location, Campus and Buildings

Union College is located in Barbourville, a residential town of 3,500, on U.S. highway 25E midway between Lexington, Kentucky, and Knoxville, Tennessee. The historic Wilderness Road runs along the eastern edge of the campus. Cumberland Gap National Historical Park is thirty miles away. The Doctor Thomas Walker State Shrine is four miles from the campus and in adjoining counties are Cumberland Falls State Park, Levi Jackson State Park, and Pine Mountain State Park.

On one of the most picturesque campuses of the South, Union College is proud of its Georgian buildings. Shaded by overhanging elms, the red brick buildings give the campus a majestic charm of dignity and beauty.

Speed Hall, (Administration Building), 1897-1905. A gift from the estate of Mrs. Fanny Speed of Louisville, KY. Her bequest also partially financed Centennial Hall and Stevenson Hall.

Centennial Hall, (formerly the Classroom Building), 1907.

Stevenson Hall, Men's Residence Hall, 1907; wings added 1957.

Baldwin Place, the home of the President, 1925. The gift of Mr. and Mrs. F.E. Baldwin, Elmira, New York.

Data Processing Center/Post Office Building, (formerly Maintenance Building), 1938, originally equipped by a gift from the estate of Robert Norton, New Albany, Indiana.

Abigail E. Weeks/Milton H. Townsend Memorial Library, 1941, originally furnished by a gift from Mrs. Abbie E. Stewart. Expanded, 1987.

Milton H. Townsend Library Annex, 1993.

Pfeiffer Hall, Women's Residence Hall, 1942; wing added 1960. The original wing was a gift from the estate of Mr. and Mrs. Henry Pfeiffer, of New York City.

Conway Boatman Chapel and Fine Arts Building, 1949.

College Courts, apartments for married students, 1954; expanded in 1964.

College Park Drive, 1960, faculty residential area.

Langford Apartments, 1962. Gifts from the estates of Miss Mary Kyle Dugan and Mrs. Mary Gilbert Langford in memory of Mr. and Mrs. George Langford. Housing for faculty and staff.

Physical Education Building, 1964, and John M. Robsion Arena, 1992, including the Swimming Pool, 1957.

Lakeside Hall, Men's Residence Hall, 1964.

Frances Patridge Student Center, renovated 1991 (the original Student Center was built in 1964).

Myrtle Cole Minton Cafeteria, 1991.

Mahlon Miller Science Center, 1973.

Religious Life Center, 1975.

Lakeside Center, houses the Division of Social Sciences and Adult Basic Education.

Maintenance Building, 1990.

Soldiers and Sailors Memorial Intramural Center, (formerly Dramatic Arts Center), 1919, renovated 1990.

Jack and Juanita Phillips Athletic Fields and Sports Complex, 1991.

Publications

Union College Bulletin — An official quarterly bulletin, one issue of which is the catalog number. The bulletin is sent free on request.

Union Express — A newspaper published by the journalism program.

Union College Alumnus — A magazine published by the Alumni office.

Union and You — A publication that combines the official calendar and institutional policies. This is the student handbook.

Student Organizations

Students have the opportunity of participating in and developing leadership through a number of campus organizations. Some of these are departmental, some are limited to honor students in their fields, many are open to all interested students. Each has a faculty or staff sponsor and some include faculty in their membership. The following are official clubs and organizations as approved by the faculty of Union College. Campus organizations must file each year for sanction to operate and new organizations must apply to be recognized and sanctioned. The Vice President for Student Life is the administrative contact for organizations

and for their requests for funds from student activities monies.

Academic Team — An opportunity to participate in a multi-campus quick-recall league.

Alpha Psi Omega — A national honorary theatre fraternity. Union's Zeta Chi chapter serves to encourage participation in the college's theatrical activities and to develop larger and better informed theatre audiences.

Appalachian Wilderness Club — A group to explore the outdoors through hiking, camping, and caving.

Baptist Student Union — An organization seeking to provide Christian fellowship on and off campus leading to commitment to Christ; seeks to provide training for a life of christian service; seeks to provide spiritual support for all students.

BLTN (Better Late Than Never) — An organization seeking to provide information, social outlets, counseling, and emotional support for non-traditional students (those who have experienced a gap between their secondary education and college or an interruption in their college careers).

Black Student Alliance — An organization seeking to promote cooperation, fellowship and solidarity among student groups with a special concern for the needs of minority students on the Union campus.

Business Club — A business organization promoting scholastic achievement, service to the community, development of leadership potential, social interaction, and increased awareness of the business world.

Campus Activities Board — A student organization to plan and manage the primary campus activities calendar and its scheduled events. The Associate Dean for Student Life serves as the primary advisor. The board seeks to provide support and encouragement to individuals and organizations toward creating a broad range of activities.

Collegiate 4-H — This club seeks to promote, exercise, maintain, and increase interest in 4-H local through international levels. A service-oriented organization.

Commuter Council — An organization seeking to explore the needs, interests, and problems facing non-residential students. The Commuter Council seeks to plan and manage activities and services for non-residential students. The Dean of Students serves as advisor to this council.

Dawg Pound — An organization to encourage school spirit; increase campus participation in Union athletic events; and create a spirit of unity among students, faculty, administration and staff.

Fellowship of Christian Athletes — An organization that serves to present to students, athletes and coaches the challenge and adventure of receiving Christ and serving Him; seeks to promote athletic involvement and spiritual growth. Not limited to student-athletes.

Gamma Beta Phi — A national honor society promoting scholarship, leadership, and good citizenship at Union College.

HASTE — An organization to promote recycling and improving environmental projects on campus.

Intramural Council — An organization serving to plan and manage an active broad-based and competent program of intramural leisure sports activities for the women and men of the campus. The Intramural Director serves as coordinator and advisor to the Intramural Council.

Iota Sigma Nu — An honor society to provide recognition for honor students by uniting them in an organization which encourages high ideals, promotes diligence in study, and rewards excellence in scholarship.

Literary Club — A club to organize guest speakers and writing contests on the Union campus.

Music Educators National Conference — An organization for future music educators. Activities include regular meetings, guest speakers and professional group outings.

National Education Association—Student Program (NEA-SP) — A national pre-professional organization for men and women planning to pursue teaching as a career.

Newman Club — An organization seeking to provide fellowship for Christian students, particularly for Catholic students on campus.

One Club — A single-parent support group that convenes for lunches and conversational meetings.

Patridge Student Center Board — A student and staff advisory board which serves to promote accessible, active, proportional, creative

use of student union facilities. This is inclusive of the Intramural Center.

Philosophy Club — A club that holds occasional meetings to discuss various issues.

REFLECTIONS — A literary magazine providing encouragement and opportunity for expression of creative writing and publishing on the Union campus.

Residence Hall House Councils and the Residence Hall Coalition — These are branches of the Student Government Association that deal with residence hall life issues and programs.

ROTC — A program which provides college trained officers for regular United States Army, Army Reserve, and Army National Guard.

Social Science Club — An organization to provide interest in the social sciences and to provide extra-curricular activities related to topics in the social sciences.

Student Athletic Trainers Association — An organization that invites guest speakers with new information on sports medicine.

Student Government Association — Provides opportunities for students to experience campus government and to examine quality-of-life issues of the campus. Seeks to assure reasonable due process in campus living.

Union College Pep Band — Provides opportunity for students and staff to play instruments in support of special campus events.

Union College Singers — A vocal ensemble that performs in chapel, Christmas concert, spring concert, graduation, tours and festivals.

Union College Student Ambassadors — A student service organization whose purpose is to introduce new students and guests to campus life and its facilities. Activities include Orientations, Parent's Weekend, Senior Day, Homecoming and hosting special guests. Members participate in an annual regional orientation conference.

UNION EXPRESS — Responsible for the regular production of a campus newspaper.

United Methodist College Fellowship — Serves to provide opportunities for study, prayer, fellowship and service with United Methodist sponsorship and support.

Athletics

Union College is a member of the Kentucky Intercollegiate Athletic Conference (KIAC), the Mid-South Football Conference (MSFC), the Kentucky Women's Intercollegiate Conference (KWIC), and the National Association of Intercollegiate Athletics (NAIA). The college promotes athletics for physical development and as a vital part of the program of extra-curricular activities. The program emphasizes the protection of the best interests of the student athlete. Union teams are noted for "clean" sport and competitive spirit. Sport for fun and character building is fundamental. In intercollegiate competition for men, the College is represented by varsity teams in football, basketball, soccer, swimming, tennis, golf, cross-country, and baseball.

Separate women's teams are active in basketball, volleyball, swimming, tennis, soccer, cross-country, and softball and compete against women's teams from other colleges and universities in the area.

In addition to the varsity sports competition for men and women, Union sponsors a varsity cheerleading squad. The cheerleading squad is open to both men and women and perform at home football and basketball contests.

Intramural Activities

The intramural program is directed by the Associate Dean for Student Life. Union College sponsors intramural activities including touch football, basketball, free-throwing, badminton, softball, aerobics, tennis and volleyball to have a "sports for all" program. The intramural organization is, in general, made-up of men's, women's, and co-ed independent teams. The program includes both team and individual sports. No college credit is given for intramurals, but everyone is urged to take part. Union College is a member of the National Intramural-Recreational Sports Association (NIRSA).

Student Conduct

Each student is expected to conduct himself/herself at all times according to the rules of good society. This obligation includes compliance with Federal, State and local laws and adherence to college regulations. As members of a free society, students are always free to peacefully and lawfully petition for amendment or modification of the various laws as well as the college regulations. However, the rights of the student body as a whole and the

College as an institution of higher education supersede the rights of any individual student or any group of students. Accordingly, not in an attempt to stifle dissent, but rather to perpetuate an environment where the student may peacefully pursue his studies, actions which are disruptive to the normal functions and operations of the College will not be tolerated. Students who are disorderly in conduct, or unmindful of the rights of others, may be required to withdraw from the College.

No student shall possess or use alcoholic beverages when on college property or when away from the campus representing the College in any way, i.e., as a participant or spectator at a College athletic event or other college function. Any student violating this regulation may be required to withdraw from the College.

Union College students are obliged to show discretion, good judgment, and strong respect for Christian principle in all interpersonal relationships.

The sale, possession, or use of drugs or substances in violation of the Federal, State, or local laws is prohibited. Any student who illegally sells, possesses, or uses such drugs will be subject to criminal prosecution by the appropriate law enforcement agencies and also may be suspended or expelled. It is the announced policy of Union College to cooperate fully with the various law enforcement officials in the enforcement of the drug laws as with all other laws. A student's lawful use and possession of certain drugs prescribed by a qualified medical practitioner such as a physician is, of course, permitted.

Guns, firearms, weapons, archery gear, and explosives of any kind are forbidden in the residence halls or on the campus. Students may be expelled for failure to abide by this rule.

Gambling in any form is strictly forbidden.

The complete Student Conduct Code is printed in UNION AND YOU, the Student Handbook. The Dean of Students serves as the chief discipline officer for student conduct for the College.

Union College expects good housekeeping from all on-campus resident students. Residents who fail to keep their rooms in satisfactory condition may have their housing contract revoked. The College reserves the right to enter and inspect the rooms and on-campus motor vehicles of students at any time.

The academic conduct code is printed in UNION AND YOU, the Student Handbook. The Vice President for Academic Affairs is the chief academic discipline officer for the College. The Student Code defining procedures for dealing with academic dishonesty can be obtained in the office of the Vice President for Academic Affairs.

Good citizenship is a requirement for a student to fully enjoy the privileges the College has to offer. Students who demonstrate a pattern of poor citizenship choices will be reviewed for loss of privilege to receive any form of institutional financial aid. Such students may also lose the privilege to participate in co-curricular, intramural, and varsity programs.

Social Life

Students are encouraged to accept every legitimate opportunity to engage in social functions. The faculty emphasizes the value of well-directed social activities. Student organizations, the faculty, and local churches make desirable contributions to the promotion of social life. The Associate Dean for Student Life is responsible for planning, initiating, and producing a comprehensive program of student social and recreational activities. All social functions are subject to the rules and regulations of the college.

Automobiles

Automobiles parked on campus must be registered in the Business Office. All must display a legible parking permit sticker. Stickers must be displayed in the rear window of the car on the driver's side or hanging from the rear view mirror. Cars must be parked in the assigned lots as designated by the Business Office. Violation of parking regulations may result in vehicles being ticketed or towed away at owner's expense. Handicapped parking is provided.

Health Service

Union College students may receive health service and advice from the Knox County Health Department in Barbourville. Since the College does not have facilities for taking care of protracted illness, arrangements for hospitalization must be made by the student or his/her parents. Knox County General Hospital is

adjacent to the campus and has a 24-hour emergency room. When a physician is needed, the student may request the residence hall staff to call one; costs are paid by the student. In case of emergency, the College reserves the right to employ a physician or to have a student hospitalized without consent of the parents. All full-time students are strongly encouraged to secure coverage for an accident, sickness, and hospitalization plan if adequate insurance is not available through a family plan at home. All claims under a student's insurance plan are to be filed by the student and the attending physician and not by Union College. An elective basic hospitalization and outpatient insurance plan is available; information can be obtained through the college.

The college requires that a student health service record and current immunization record be completed by a physician and placed on file in the Student Life Office before beginning studies at Union. Recent measles outbreaks across the nation have resulted in our requiring that all incoming students have current MMR immunization.

Campus Housing

Stevenson Hall and Lakeside Hall for men and Pfeiffer Hall for women are primarily double-occupancy facilities. A limited number of single/private rooms may be available; preference for these rooms is granted by request to those students having earned the greatest number of credit hours. Twenty apartments are available for married students. All residents of Stevenson Hall, Lakeside Hall, Pfeiffer Hall, and College Courts are required to sign housing contracts.

Students are expected to obey the terms of their housing contracts. A copy of this contract can be obtained in the office of the Dean of Students.

The residence halls are closed during vacation periods as specified in the academic calendar. Students will not be allowed to remain in the residence halls during vacations. Students will be required to turn in their keys during these stated vacation periods. Anyone failing to do so will incur a financial penalty.

No student will be issued a room key, hallway, or outside door key unless he or she has first signed a current housing contract. Keys must be returned by the last day of the term of this agreement or the student's use of the accommodations, whichever occurs first. Any student failing to return a room key and/or apartment key will be charged a ten dollar ($10.00) fee. A twenty-five dollar ($25.00) fee will be charged for loss of outside door key to cover the cost of changing the lock.

All unmarried (those with no dependent children) full-time undergraduates under the age of 21 at the opening of the school year are required to live on campus. Commuting students are exempted if living with parent(s) or if living with legal guardian(s) who are over the age of 21. Commuting students living within a radius of approximately 75 miles of the campus are exempted (typically commuters with prior legal addresses of one year or more in the counties of Knox, Clay, Bell, Whitley, Laurel, or Harlan would be exempted). Exceptions to this requirement must be applied for IN ADVANCE in writing to the Dean of Students. Institutionally-funded financial aid, grants, and scholarships are contingent on your being in compliance with the above housing requirement. A $50.00 refundable damage deposit is required for on-campus housing; this deposit should be directed to "Housing Office".

I.D. and Address Requirements

Every Union College student must maintain a current address listing with the Student Life Office for emergency purposes and must be prepared to show a current Union College I.D. card on demand. Your I.D. card will be given to you during Fall registration.

Counseling Services

Union College takes seriously its responsibility to provide for the diverse needs of its students. For this reason, the college has established a network of counseling services in the following areas: academic advising, career planning and placement, religious concerns, personal and psychological counseling.

All students are assigned an academic adviser at the beginning of their tenure at Union College. Faculty members serve in this capacity to assist students in selecting courses and completing academic requirements in a timely manner.

The Office of Career Planning and Placement provides services that are designed to help define a student's career needs, objectives and goals. Services offered may include: occupational advising, career interest testing, credentials/placement file service, job search skills seminars, graduate and professional school information.

Pastoral counseling services are provided by an ordained minister or a licensed pastoral counselor. The campus chaplain is available for individual and group sessions and is prepared to make referrals as needed to other professionals. The college also offers the "On Campus Talking About Alcohol" (OCTAA) program for students.

Personal counseling services are available to all currently enrolled students. A qualified psychologist employed by Union College offers individual counseling and therapy for emotional, interpersonal, family, or social concerns.

The college also provides counseling support through a peer counseling program.

The Student Life Staff is one of the more visible groups of individuals in the student's daily life. All staff members are prepared to assist students with special problems that may arise, and to connect them with the best available source of help within the college community.

Religious Life

Union College takes seriously its identity as a church-related institution and is concerned that its students be made aware of the value of faith as well as academic excellence. We seek to be faithful to John Wesley's affirmation that a whole person is one who unites knowledge with vital piety.

Students are given many opportunities to participate in Chapel services, fellowship groups, Bible studies, service projects, and denominational groups. The Religious Life Center, in the heart of the campus, provides a setting for informal meetings. The Chaplain is available for pastoral counseling and referral for help with difficult problems.

The Willson-Gross Lectures and the Staley Distinguished Christian Scholar Lectures seek to bring outstanding speakers to the campus. The Religious Life Committee, composed of students, faculty, and staff, works with the Chaplain as an advisory group to ensure that religious life programs are appropriate to the needs of the students and the campus community.

Students are encouraged to worship regularly in the church of their choice and to participate in the various religious groups on campus and in the community.

Students are also encouraged to participate in community and world service projects during the year, such as world hunger relief, improvement of the quality of life in the Appalachian area, and community recycling.

ACADEMIC CALENDAR 1994-95

Summer, 1994 - First Session

May 30, Monday	Residence halls open for new students at 1:00 p.m. Memorial Day Holiday.
May 31, Tuesday	Advising and Registration. Late fee after this date. Students may register for both summer sessions. First meal - Breakfast Classes begin on regular schedule.
June 2, Thursday	Last day for schedule changes. Last day to register for first summer session.
June 15, Wednesday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
June 20, Monday	Orientation and Advance Registration for fall semester for new students.
July 1, Friday	Final Examinations. Students not registering for second summer session must check out of residence halls by 6:00 p.m. Last meal - Supper
July 5, Tuesday	Final grades due by 12:00 noon.

Summer, 1994 - Second Session

July 4, Monday	Residence halls open for new students at 1:00 p.m.
July 5, Tuesday	Advising and Registration. Late fee after this date. Classes begin on regular schedule. First meal - Breakfast
July 8, Friday	Last day for schedule changes. Last day to register for second summer session.
July 11, Monday	Orientation and Advance Registration for fall semester for new students.
July 21, Thursday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
August 5, Friday	Final Examinations. Last meal - Supper Residence halls close at 6:00 p.m.
August 8, Monday	Final grades due by 12:00 noon.

Fall Semester, 1994

August 3, Wednesday	Last day to finalize advance registration for fall semester.
August 25, Thursday	Meeting for new faculty members; 10:00 a.m.
August 26, Friday	Faculty Meeting/Orientation and Registration Information; 9:00 a.m. Division Meetings; 11:00 a.m. Residence halls open 6:00-10:00 p.m. for NEW students.
August 27, Saturday	Residence halls open 10:00 a.m.-10:00 p.m. for NEW students. First meal — Brunch
August 28, Sunday	Residence halls open 10:00 a.m.-10:00 p.m. for RETURNING students.
August 29, Monday	Advising for upperclassmen and freshmen. Registration for Fall Semester. Late fee after this date. Fall Orientation — 1:00 p.m.

August 30, Tuesday	Classes begin.
September 5, Monday	Labor Day; no classes.
September 8, Thursday	Fall Convocation (required attendance by all full-time students); 9:30 a.m. — Conway Boatman Chapel.
	Last day for schedule changes.
	Last day to register for fall semester.
	Last day to apply for December graduation.
September 6-9	Constitutes the first week for refund purposes.
September 15, Thursday	Student Life Convocation (required attendance by all full-time students); 9:30 a.m. — Conway Boatman Chapel.
September 22, Thursday	Student Life Convocation (required attendance by all full-time students); 9:30 a.m. — Conway Boatman Chapel
October 18 - 19	Mid-semester examinations (classes meet on regular schedule).
October 20 - 23	Mid-semester grades due by 4:00 p.m. on October 20.
	Mid-semester weekend; no classes.
	Residence halls remain open; food service available.
October 24, Monday	Classes resume.
October 24 - 28	Counseling sessions with advisors.
	Classes meet on regular schedule.
October 27, Thursday	College Convocation (required attendance by all full-time students); 9:30 a.m. - Conway Boatman Chapel.
November 9, Wednesday	Last day to elect credit/fail option.
	Last day to withdraw from a course with a grade of "W".
	Advising and Advance Registration for spring semester.
November 22, Tuesday	Last meal — Supper
November 23, Wednesday	Residence halls close at 10:00 a.m.
November 23 - 27	Thanksgiving vacation; no classes.
November 27, Sunday	Residence halls re-open at 1:00 p.m.
	First meal — Supper
November 28, Monday	Classes resume.
December 2, Friday	Last day to finalize advance registration for spring semester.
December 10, Saturday	Final Examinations for Saturday classes.
December 12, 13, & 14	Final Examinations.
December 15, Thursday	Residence halls close at 4:00 p.m.
	Last meal — Lunch.
December 16, Friday	Final grades for fall semester are due by 12:00 noon.

Spring Semester, 1995

January 8, Sunday	Residence halls open at 11:00 a.m.
	First meal — Lunch
January 9, Monday	Academic Advising.
	Counseling and Orientation for new students.
	Registration for spring semester.
	Late fee after this date.
January 10, Tuesday	Classes begin.
January 16, Monday	Martin Luther King Day; no day classes. Evening classes meet.
January 16 - 20	Constitutes the first week for refund purposes.
January 19, Thursday	Spring Convocation (required attendance by all full-time students); 9:30 a.m. — Conway Boatman Chapel.
	Last day for schedule changes.
	Last day to register for spring semester.
	Last day to apply for May-August graduation.
February 28 - March 1	Mid-semester Examinations (classes meet on regular schedule).

March 3, Friday	No classes. Mid-semester grades due by 4:00 p.m.
March 9, Thursday	College Convocation (required attendance by all full-time students); 9:30 a.m. - Conway Boatman Chapel
March 10, Friday	Spring vacation begins at 5:00 p.m. Residence halls close at 5:00 p.m. Last meal — Lunch
March 19, Sunday	Residence halls re-open at 1:00 p.m. First meal — Supper
March 20, Monday	Classes resume.
March 21 - 24	Counseling sessions with advisors. Classes meet on regular schedule.
March 22, Wednesday	Assessment Day - Adjustment in class schedule. Evening classes meet.
March 29, Wednesday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
April 6, Thursday	Honors Convocation; 10:30 a.m. — Conway Boatman Chapel Advising and Advance Registration for May Interim, Summer Sessions, and Fall Semester.
April 13 - 15	Easter vacation; no classes. Residence halls remain open; food service available. Brunch and Supper only.
April 17, Monday	Classes resume.
May 1, Monday	Last day to finalize advance registration for May Interim.
May 1, 2, & 3	Final Examinations.
May 4, Thursday	Students not involved with Commencement and not registering for May Interim must check out of residence halls by 4:00 p.m.
May 5, Friday	Final grades for spring semester are due by 12:00 noon. Baccalaureate; 7:30 p.m.
May 6, Saturday	Commencement; 10:00 a.m. Last meal — Brunch
May Interim, 1995	
May 7, Sunday	Residence halls open for new students at 1:00 p.m.
May 8, Monday	First meal — Breakfast Registration for May Interim. Classes begin on regular schedule.
May 9, Tuesday	Last day to register for May Interim. Last day for schedule changes.
May 12, Friday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
May 20, Saturday	Orientation and advance registration for Fall Semester for new students.
May 22, Monday	Last day to finalize advance registration for first summer session.
May 26, Friday	Final Examinations. Students not registering for first summer session classes must check out of residence halls by 6:00 p.m. Last meal — Supper
May 30, Tuesday	Final grades due by 12:00 noon.
Summer, 1995 - First Session	
May 29, Monday	Residence halls open for new students at 1:00 p.m. Memorial Day Holiday; no classes.
May 30, Tuesday	Advising and Registration. Late fee after this date. Students may register for both summer sessions. Classes begin on regular schedule. First meal — Breakfast
June 1, Thursday	Last day for schedule changes. Last day to register for first summer session.

June 14, Wednesday	Last day to elect credit/fail option.
	Last day to withdraw from a course with a grade of "W".
June 19, Monday	Orientation and Advance Registration for fall semester for new students.
	Last day to finalize advance registration for second summer session.
June 30, Friday	Final Examinations.
	Students not registering for second summer session must check out of residence halls by 6:00 p.m.
	Last meal — Supper
July 3, Monday	Final grades due by 12:00 noon.

Summer, 1995 - Second Session

July 3, Monday	Residence halls open for new students at 1:00 p.m.
July 4, Tuesday	Independence Day; no classes.
July 5, Wednesday	Advising and Registration
	Late fee after this date.
	Classes begin on regular schedule.
	First meal — Breakfast
July 7, Friday	Last day for schedule changes.
	Last day to register for second summer session.
July 10, Monday	Orientation and Advance Registration for fall semester for new students.
July 20, Thursday	Last day to elect credit/fail option.
	Last day to withdraw from a course with a grade of "W".
August 4, Friday	Final Examinations.
	Last meal — Supper
	Residence halls close at 6:00 p.m.
August 7, Monday	Final grades due by 12:00 noon.

Residence halls will not close during the period from the end of Spring Semester through Summer II. Food service, however, will not be provided during the short periods between these terms.

ADMINISTRATION AND STAFF

JACK C. PHILLIPS, *President of the College* — A.B., Birmingham-Southern College; M.Div., Vanderbilt University; LL.D., Union College.

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BOB WARD, *Superintendent of Buildings and Grounds.*

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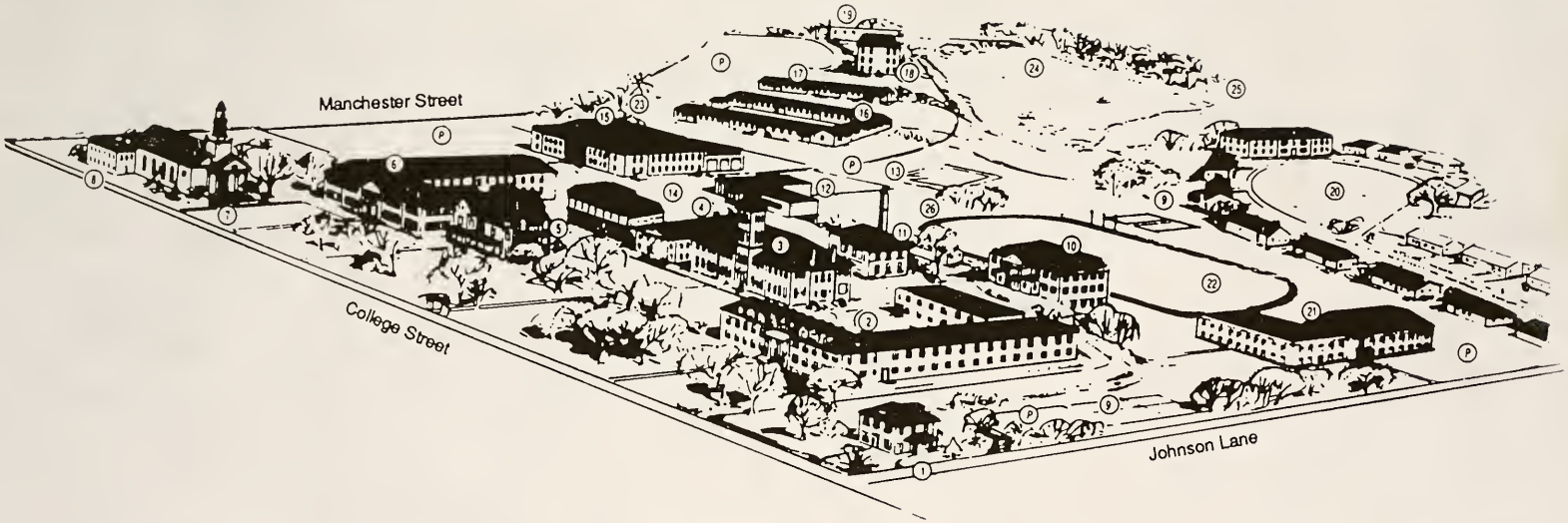

P. Parking
1. Baldwin Place, President's Residence
2. Stevenson Hall, Men's Residence Hall
3. Centennial Hall Historic Landmark, Classroom Building
4. Abigail E. Weeks/Milton H. Townsend Memorial Library & Annex
5. Speed Hall, Administration Building
6. Pfeiffer Hall, Women's Residence Hall
7. Conway Boatman Chapel
8. Fine Arts Building
9. Tennis Courts
10. Soldiers and Sailors Intramurial Center
11. Campus Post Office/Data Processing Center
12. Patridge Student Center & Minton Cafeteria
13. Colonel Harland Sanders Baseball Field
14. Religious Life Center
15. Physical Education Building, Gym, and Swimming Pool
16. College Courts, Married Students' Apts.
17. College Courts, Faculty and Staff Apts.
18. Lakeside Hall, Men's Residence Hall
19. Lakeside Social Sciences Center
20. College Park Drive, Faculty & Staff Residences
21. Mahlon Miller Science Center
22. Burch-Nau Football Field
23. Football Offices/Weight Training Facility
24. Maintenance Building & Shops
25. College and Community Recreation Park
26. Jack C. & Juanita Phillips Athletic Complex

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While this catalog was prepared on the basis of the best information available at the time of publication, all information - including statements of fees, course offerings, admissions and graduation requirements - is subject to change without notice or obligation.

Full-time students continuously enrolled at Union College ordinarily may expect to graduate under the requirements stipulated in the catalog under which they entered. Students failing to enroll for a period longer than two years will fall under the catalog in effect when they return to full-time status. Students may appeal to the Vice President for Academic Affairs for exceptions to this policy.

The statements in this catalog are for information only and do not constitute a contract between the student and Union College. **Failure to read this bulletin does not excuse the student from the requirements and regulations described herein.**

Cumberland
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310 College St.
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(606) 546-4151

UNION

UNION COLLEGE

BARBOURVILLE, KENTUCKY

"Committed to Excellence"

CATALOG 1995-96

Union College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award Associate, Bachelor, and Master level degree, by the Kentucky State Department of Education, and is approved by the University Senate of the United Methodist Church.

It is the policy of Union College not to discriminate on the basis of sex, race, color, disability, age, or national or ethnic origin in the admission of students, in its administration of educational or national programs, scholarships, loan programs, or other school-administered programs, or in athletic participation. Inquires should be directed to Mr. Edward H. Black, Affirmative Action Officer.

UNION COLLEGE CATALOG

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TELEPHONE COMMUNICATION

A new campuswide telephone network features Direct Inward Dialing (DID) to most campus extensions: caller may access these extensions directly by using the 4-digit extension number in place of the College's main number. All other numbers must first go through the switchboard and the main College number plus the extension number. Emergency numbers include:

Central Switchboard ..... (606) 546-4151
Campus Security ..... (606) 546-1390
Admissions Office 1-800-489-8646
Pfeiffer Hall Head Resident (women) ..... (606) 546-1344
Stevenson Hall Head Resident (men) ..... (606) 546-1262
Lakeside Hall (men) ..... (606) 546-1391
FAX number ..... (606) 546-1217

DR. AND MRS. JACK C. PHILLIPS

PRESIDENT'S MESSAGE

We are pleased that you have selected Union College for the next phase of your educational development. This decision signifies your confidence in Union College to provide you with a comprehensive education–an experience that will assist you in achieving your career goals and dreams.

The administration, faculty, and staff of Union College do not take the responsibility of your trust lightly. We are committed to you as an individual and to providing you with the highest return on your educational dollars.

The "Union College community" offers each person a friendly and supportive atmosphere. I like to call it "our family spirit." You will receive the personalized attention and assistance that you want and need. The faculty-to-student ratio of 1:13 means classes are of reasonable size, and you have the chance to ask questions and have them answered. Also, the percentage of faculty holding the terminal or doctorate degree is more than 60%. The average class size is 16, but you may find yourself in a quantitative chemistry class with six people or taking Calculus II with three other students. "They know us on a first-name basis and are able to teach us as individuals based on our capabilities," relates a current student.

You will benefit from a faculty that enjoys challenging your mind and are delighted when challenged in return. When faculty members are hired at Union, they realize that their first dedication must be to teaching. At Union, you can also be assured that you will not be taught by graduate assistants as is the case in a large majority of colleges and universities. Accessibility of faculty outside of the classroom is another important factor in the learning process. Our policy reflects an open door to our students. They are aware that both faculty and staff care for them.

The path to personal and professional success begins with a strong foundation in liberal arts. National studies indicate, and major corporate leaders agree, that the best preparation for a rapidly changing world is a broad-based education. Whichever academic avenue you choose, the liberal arts curriculum at Union will develop the skills necessary to be successful in our ever-evolving society and workplace. You will develop the abilities to think, reason, analyze, and communicate effectively. These are key ingredients to successful careers.

Union by definition means, "coming together and working for a common purpose." We look forward to joining forces with you and helping you to reach your educational goals.

Sincerely,

Jack C. Phillips

Jack C. Phillips
President

A History of Service

Union College was founded in 1879 by a group of progressive citizens of Barbourville who formed a stock company and secured the main part of the present campus. In 1880, the first building was formally opened on the site of what is now known as Centennial Hall.

The College was purchased by the Kentucky Conference of the Methodist Episcopal Church in 1886, and Daniel Stevenson was made president of the reorganized institution. A major bequest from Mrs. Fanny Speed led to the construction of Speed Hall, Stevenson Hall, and the Classroom Building (now known as Centennial Hall).

The college department was discontinued in 1908, and for eight years the institution was maintained as a Junior College, an academy, and an elementary school. It became a *bona fide* college again in the presidency of Ezra T. Franklin, who inaugurated a program of development during which the Memorial Gymnasium and a home for the president were built. In 1927, the College was accredited by the University of Kentucky as a four-year college of A grade.

President John O. Gross emphasized the improvement of the curriculum and the building of a strong faculty. In 1931, Union was accredited by the University Senate of the Methodist Episcopal Church, and in 1932, full accreditation was realized when it was made a member of the Southern Association of Colleges and Schools. The Board of Regents of the University of the State of New York placed Union College on its accredited list in 1937.

In Conway Boatman's twenty-one years of leadership, the College achieved marked progress in both its educational programs and in plant improvement. Seven new buildings were completed and others were enlarged. The curriculum was expanded, endowment funds were increased, and a markedly improved program of faculty salaries and benefits was adopted.

Mahlon A. Miller was elected to the presidency in 1959. In 1960, a Master of Arts in Education degree program was introduced, and plant expansion continued with the development of College Park, a faculty residential area, followed by the construction of additional student housing, a physical education building, a student center, and a science center, completed in 1973.

President Jack Carter Phillips began his duties at Union College in January, 1983.

Dr. Phillips earned the Bachelor's Degree at Birmingham-Southern College and the Master of Divinity Degree at Vanderbilt University. He received an honorary Doctor of Laws Degree from Union College in 1981. He was lauded at that ceremony for "notable achievement in the field of institutional fund raising and, in particular, service to the colleges and universities related to the United Methodist Church."

A native of Scottsboro, Alabama, Dr. Phillips served in the U.S. Marine Corp from 1954 to 1957.

Union College is currently in the midst of a $1 million project that will modernize the voice/data information services available to its students and faculty. The initial phases which have been completed include a new campus-wide phone system that has allowed for expansion of these services into each room in the residence halls. Second has been the total automation of the Weeks/Townsend Memorial Library and connection to Internet, allowing for easier, quicker, and expanded access to information concerning available resources and research materials both on campus and nationwide. Future plans call for networking of the College's five academic computer laboratories and the installation of computer hookups in each student's room. These connections would enable students to access the Library and academic facilities from the solitude of their rooms. Union College is preparing its campus and students for the highly technological world that awaits us in the 21st century.

Under Dr. Phillips' leadership the College has experienced significant enrollment increases every year. A new 37,000 square foot library addition with computer facilities and a modern well equipped learning resource center opened in 1987.

The College has always accepted a special mission to Appalachia, a commitment which is now being strengthened with unique academic programs based on regional characteristics, expanded student financial aid, student community-service projects, and new career-oriented curricula.

The doors of Union College are open to all who aspire to a more fulfilling life, without regard to race, color, sex, disability, national or ethnic origin.

Interested and prospective students are encouraged to arrange a visit to the campus by calling the Admissions Office 1-800-489-8646.

STATEMENT OF PURPOSE
(Mission Statement)

Union College is an independent liberal arts institution of higher education, affiliated with the United Methodist Church. It is dedicated to maintaining an academic environment that stimulates intellectual curiosity and scholastic competence, encourages Christian values, and underscores the worth and responsibilities of education and the individual. The College admits students without regard to race, color, creed, age, sex, or disability.

Union College commits itself to providing students with a sound education. The faculty embodies scholarship and dedication to student needs and achievements. Small classes allow attention to the individual. Faculty advisors assist each student in developing career goals and a plan of study appropriate to these goals. Students have access to many scholarly and technical resources, to personal, career, and academic counseling, and to a faculty representing a variety of models of intellectual accomplishment.

The College has designed its academic program to provide its students with the opportunity to broaden their knowledge of their own and other cultures, and to obtain the intellectual skills necessary for a career. The undergraduate Liberal Education Core, including the fields of humanities, natural sciences, and social science promotes breadth of learning and serves as th foundation for the pursuit of individual major Plans of study in pre-professional and technic fields prepare students headed for post-gradu ate study or for immediate employment. strong developmental program attends to gap in academic preparation. Union offers gradua programs in education for the further prepar tion of both teachers and administrators. As vital part of its service to the surrounding are outreach includes a community education pr gram, linkages with area school districts, s lected courses offered at regional locations, an provision of several associate degrees. In its con mitment to the United Methodist Church, Unic College provides pre-ministerial training an support services to local churches.

Although Central Appalachia is Union's pr mary service area, the College intentionally r cruits students from numerous states and fo eign countries who enrich and diversify th College community. In order to inform peop about Appalachian life, traditions, and pro lems, the College offers Appalachian studies f its own students and those from other instit tions of higher education.

As a cultural center, as a resource for its are and as a rigorous academic environment, Uni College pursues its mission to serve both st dents and community.

GOALS FOR GENERAL EDUCATION

A. COMMUNICATIONS SKILLS

A primary goal of Union College's academic program is to help students develop and improve their communications skills. This includes both *expression* (the ability to convey information and ideas to others) and *comprehension* (the ability to receive and understand information and ideas conveyed by others). An acceptable level of *expression* includes the ability to write and speak in a clear and cogent fashion, while *comprehension* requires the ability to read college level material, listen to lectures and retain and understand the content of the material presented. Therefore, a Union student should, by graduation, be able to:

1. write a clear and cogent essay based on his or her own ideas which obeys the basic rules of grammar, spelling, and punctuation;
2. prepare and deliver a logical and organized oral presentation;
3. read and integrate information into previously acquired knowledge; and
4. listen to a lecture or presentation and recall and understand the major points.

B. ETHICS AND VALUES

As an institution related to the United Methodist Church and one fostering Christian values, Union College does attempt to develop ethical standards as an important part of any student's education. Students should learn to think about and discuss values and ethics and become aware of the major religious and ethical perspectives of humankind. The College encourages an awareness of the Christian faith and believes that students should develop a tolerance toward the viewpoints of others. Upon graduation, the Union student should be:

1. familiar with today's major religious and ethical ideals, and how they developed;
2. tolerant toward and respectful of these different views and ideals; and
3. able to think about and articulate problems and issues related to ethics and values.

C. GENERAL KNOWLEDGE

No education is complete without the acquisition of a solid base of general knowledge. Without such knowledge, the student will not be capable of developing his or her thinking and reasoning abilities. With this knowledge, students will have a storehouse of information that will help them more effectively to exchange ideas, thoughts, and feelings with others. The constant expansion of and change in the corpus of information means that it would be futile to attempt to define precisely on a long-term basis what a student should know. Nevertheless, there are certain areas with which the student should be familiar, at least in general terms. By graduation, the Union student should have:

1. an ongoing interest in and appreciation for music, literature, and the arts, and the traditions on which these fields are founded;
2. an informed acquaintance with the natural and social sciences and technology, and a general awareness of their continuing impact and development through the ages; and
3. acquired reasonable mathematical and quantitative skills.

D. CRITICAL THINKING AND PROBLEM SOLVING

The ability to think critically and to analyze and solve problems is an absolutely essential skill. In an increasingly complex world characterized by a constantly expanding flow of information, it becomes more and more necessary for educated persons in every field to be able to arrive at responsible and considered decisions. A college graduate who lacks these abilities is unlikely to succeed in any area of endeavor. Thinking and analysis develop over many years and cannot become fully developed during an undergraduate career. Union desires that its students make progress in this direction, however, by developing or improving upon their ability to:

1. understand abstract ideas;
2. analyze problems that involve complex sets of facts and relationships; and
3. think and reason in a critical, logical, and objective fashion.

E. CONTEXT

Understanding the modern world depends upon an adequate comprehension of the forces that continue to shape societies. There are many different interpretations of and explanations for the current world situation, and students are free—and encouraged—to develop their own opinions. During the college years, students have the opportunity to learn about the context

of modern civilization—its antecedents and structure. By the completion of their undergraduate program, students should have:

1. increased their understanding of how the modern world works, including its peoples' increasing interdependence;
2. acquired a basic knowledge and appreciation of other cultures; and
3. developed an interest in, and comprehension of, current events and their history.

F. LEARNING SKILLS AND PERSONAL DEVELOPMENT

The development of learning skills and personal development are important goals of all programs at Union College. In addition, courses are offered which are specifically designed to develop learning skills where these are lacking, assisting students to "learn how to learn". Students are also expected to become familiar with ways in which the library supports and comple ments a liberal arts education and how librarie can serve them throughout their lives. All stu dents are offered the opportunity to use com puters to assist their educational experience an to learn how the computer can be useful to then personally.

Commitment to the goal of personal devel opment is evidenced at Union College by th requirement that all students extensively expe rience the liberal arts. Of special importance i Union's mission to serve the Appalachian peopl by making a liberal arts education available t the community. Students graduating from suc a program will have developed a degree of con fidence in their ability and will be prepared t go on in life with the expectation of success in chosen endeavor. Appalachian students wil also develop an increased appreciation of thei own culture, place, and importance in the world

A STATEMENT OF VALUES

Union College is dedicated to preparing stu-
lents for living informed, socially useful, per-
onally fulfilling, and spiritually vital lives. This
ommitment involves using knowledge within
context of Christian values. Although it is rec-
gnized that as an educational institution Union
College has an obligation to help students un-
lerstand other value systems and their effects
vhen translated into specific areas of human ac-
ivity, as a United Methodist Church-related col-
ege Union affirms an institutional stance based
n Christian values such as have evolved in the
udeo-Christian tradition and are contained in
he Old and New Testaments. Our intent is both
o confess and to practice the Christian faith in
ll our endeavors.

IMPLICIT IN THIS STATEMENT OF VAL-
JES IS THE REQUIREMENT THAT UNION
COLLEGE COMMIT ITSELF TO THE VALUES
ENUNCIATED BY ASSURING TO THE MAX-
MUM EXTENT POSSIBLE:

To Its Students

(1) the fullest of opportunities to receive a quality liberal arts education.

(2) strong attention to, and genuine concern for, each individual in the college community, including emphasis upon the unique value of each person.

(3) a continuing concern that they learn to appreciate and accept life styles that reflect integrity, honesty, compassion, and social responsibility.

(4) a commitment to provide the experiences necessary to acquire a meaningful understanding of and dedication to Christian love and service to both God and neighbor.

To Its Faculty and Staff

(1) a campus atmosphere of responsible academic freedom dedicated to the constant search for truth.

(2) an academic community dedicated to openness and acceptance of its pluralistic composition, including personnel policies and practices that are recognized without regard to race, creed, sex, color, physical handicap, or national origin.

(3) a constant reminder of the power of Christian example.

To Its Alumni, Benefactors, and the Parents of Its Students

(1) faithful and responsible stewardship of all funds and gifts entrusted to the College.

(2) continuance of meaningful traditions, particularly those unique to a church-related institution, while at the same time encouraging the exploration and implementation of new value-centered activities especially of the type that have strong Christian relationship.

(3) continuing appreciation for the rich heritage of Union College as an independent, non-sectarian, church-related institution in the Christian tradition.

To The United Methodist Church

(1) acceptance of Jesus Christ as God's revelation of Himself, and of the Holy Spirit as God's continuing presence in life.

(2) acceptance of the moral standards which have evolved in the Judeo-Christian tradition as our ideals for living, working and witnessing in an academic community and as the standards for our teachings and personal example.

(3) sensitivity to and a conscientious effort directed toward the satisfaction of the spiritual needs and concerns of the college's students, faculty, and staff.

(4) meaningful responsiveness to and support for the United Methodist Church.

To Barbourville, Knox County, and the Appalachian Area

(1) continuing appreciation that Union College is an integral, social, educational, and spiritual part of the Barbourville and Knox County communities, and of Appalachia.

(2) dedication of the college's resources in teaching, research, and service to the enrichment of the communities of which Union College is a vital part.

(3) a commitment of the personal resources represented by the college's students, staff and faculty to local churches of the immediate and larger community.

ADMISSIONS AND GENERAL INFORMATION

ADMISSION REQUIREMENTS

The criteria for admission are used to identify those who are most likely to complete a college program of studies. The Admissions Office evaluates each applicant on an individual basis and acceptance decisions are determined on the quality of academic achievement, high school grade point average, class rank, and the scores of the ACT (American College Testing Program) or SAT I (Scholastic Assessment Test of the College Board).

Applicants are required to submit an official transcript from an accredited secondary school, or a high school equivalency certificate based on the GED tests. The secondary school transcript should include four years of English, three years of mathematics, two years of social studies, and two years of science. The study of a foreign language is recommended.

Union College requires that an **official** transcript from each college or university attended be forwarded to the Admissions Office before an admission decision is made.

The College processes applications on a rolling admissions basis. An application is considered complete when all academic credentials including the secondary school and/or college transcript(s), and results of the ACT or SAT I have been received.

Procedures For Admission

Application for Admission

The application for admission is available from the Admissions Office, Union College, Barbourville, KY 40906. A processing fee of $20.00 is required before an application will be considered for admission.

Enrollment Deposit

After official notification of acceptance to the Fall semester, all new students are required to submit a $50.00 enrollment deposit which is applied toward tuition. This deposit is refundable until August 1. If you are applying for financial aid your deadline is extended until you have been notified of your award. At the time of acceptance of your financial aid award you have two weeks to submit your enrollment deposit.

Secondary School Transcript

Applicants must authorize the release of their (high school) transcript by signing the application form. The Admissions Office will write to the applicant's high school for an official copy of the transcript.

Entrance Tests

All candidates are required to take the American College Test (ACT) or the Scholastic Assessment Test (SAT I). Applicants should have the results forwarded to Union College. The Union College code number is 1552 for the ACT and 1825 for the SAT.

A test application blank and bulletin of information may be obtained from the secondary school guidance office or from Union's Admissions Office.

Summer Orientation

A one-day Summer Orientation program is required for all students who are entering Union College for the first time.

The program includes academic advising, registration, and financial aid counseling and is designed to help students make a successful transition to the College.

Admissions Information for Other Programs

High School Junior Program

A student who has completed the junior year of high school may qualify for the High School Junior Program. The student must have a "B" average and must take the ACT test given in February and/or April to be admitted to the program. The student may then enroll for 6 hours or less in any one term for one-half the established summer tuition rate. This grant terminates when the student graduates from high school.

GED Acceptance

An applicant may be admitted on a high school equivalency certificate based on the General Education Development Tests, provided that the scores earned are equal to or above the minimum recommended for college entrance by the American Council on Education.

Advanced Placement

Students who have successfully passed one or more of the Advanced Placement tests of the College Entrance Examination Board may ask for advanced placement and credit when they submit their application. The Office of the Registrar will decide on the credit to be granted and the college course that may be considered for equivalency. A score of 3 or higher is required for such action.

Early Start Senior Summer Program

A high-school graduate who has not attended college since graduation may be eligible for the Early Start Senior Summer Program. To qualify a student must meet admission standards required of all students, must graduate in the upper 50% of the class, and must have a minimum ACT English score of 20 or SAT I Verbal score of 500.

Accepted students who enroll for courses in either summer session will be provided a grant for one-half of the tuition charges. If the student enrolls for and completes twelve hours during the summer sessions, there will be no room charge to live on campus. All students must pay a $50.00 refundable room deposit.

Students who enroll in and complete twelve hours of college credit with a grade point average of 3.0 ("B" average) will receive a $250 grant as a full time student in the fall. If the 3.0 average is maintained in the fall, the student will receive another $250 grant in the spring. After the spring semester, the grant terminates.

Admission to Appalachian Semester

Sophomores, juniors, and seniors from colleges and universities as well as Union College students may apply for the Appalachian Semester Program. The priority deadline for applications is May 1 for the following fall semester; however, applications are received and reviewed until the available spaces have been filled. Early application is recommended for this program.

The application process includes a brief essay describing the student's interest and experience with the Appalachian Region; a non-refundable application fee; and an official transcript from the college or university attended. The following criteria are used to evaluate candidates: caliber and diversity of the courses attempted; performance in those courses; cumulative grade point average; life experiences; quality and content of the essay. Recommendations from an academic advisor are welcome.

Admission of Adult Students

Students 25 or older are not required to furnish ACT or SAT I scores.

Admission of International Students

International students must complete the regular admission process. ACT or SAT I is not required for admission but is required if a student is claiming scholarship eligibility. A non-refundable application fee of $20 should accompany each application for admission to the College. After the student's credentials have been received and the student is accepted, an I-20 will be issued. The College must receive payment for the student's first semester costs for tuition, room and board, and fees before registration can take place and the student is allowed to move into the dormitory.

In order to be considered for admission, an international student must show English proficiency with a minimum score of 550 on the Test of English as a Foreign Language (TOEFL), or have completed level 109 from any English Language Services (ELS) center or have a score of 80 or above on the Michigan Placement Test.

When the admission process is completed, an international student is obligated to stay at Union for at least one year. No official transcript or recommendation will be released until the student fulfills the year's obligation. If a student leaves before one year, he/she will be reported to Immigration and Naturalization Services as being out of status. One year is interpreted as two full semesters, excluding summer sessions.

The student must pursue a full course of study. Those who drop to part-time status must by law be reported to the Immigration and Naturalization Service. No visas and/or passports will be renewed until the student's account is paid in full.

Transfer Policy

The transfer applicant is required to submit:

1. An application for admission.
2. An **official**, sealed transcript from each college/university previously attended.
3. An official high school transcript and ACT or SAT I scores are required of all students transferring fewer than thirty-one semester hours.

A transfer student applying to Union College must be in good standing with the previous college and be eligible to return to that school.

Union College will record a summary of transfer credits, indicating the total number of hours accepted and the quality point average at the sending institution. Union accepts only transfer work in courses with a grade of "C" or above. This policy applies only to credits transferred on a course-by-course basis, not to junior college students who transfer entire degree programs.

Sixty-seven semester hours is the maximum number of hours that will be accepted from a two-year institution. Transfer students must satisfactorily complete thirty-two semester hours at Union College. For an associate degree, a trans fer student must satisfactorily complete eighteen semester hours at Union College.

Transfer credits will be accepted at the leve of the initiating institution. Therefore, a studen transferring from a two-year institution must ac cumulate thirty-nine semester hours of uppe division credit while a student at Union Colleg before they are eligible for graduation. Of tha work, at least six upper division hours must b included in any minor; twelve upper divisio hours must be included in any thirty hour major and at least eighteen semester hours of uppe division course work must be included in an fifty-four hour major or in an area of concentra tion.

FINANCIAL AID & FEES

TUITION AND FEES

College Expenses

The academic year is divided into two regular semesters, Fall and Spring. In addition, a special May Interim and two special summer sessions are offered, convening in the months of May, June and July respectively. Applicable tuition and fees are as follows.

Undergraduate Expenses (per regular semester)

Tuition (12 to 17 semester hours) and Activity Fee $4,100.00
Room and Board*
(19-meal week) $1,520.00
Private Room (Additional) ..... $ 175.00
Total for Boarding Student
—Double Room $5,620.00
—Private Room $5,795.00
Part-time tuition for registering less than 12 or more than 17 semester hours, per semester hour ..... $ 180.00
(Undergraduate students over age of 50 pay 50% of the established tuition rate.)

Graduate Expenses

Full-time tuition (12 to 17 semester hours) $4,100.00
Part-time tuition
(per semester hour) ..... $ 180.00

Summer Session Expenses 1995

Tuition, Undergraduate
(per semester hour) ..... $ 180.00
Tuition, Graduate
(per semester hour) ..... $ 180.00
Room and Board — (15 meals per week) each term** ..... $ 390.00

May Interim Term Expenses 1996

Tuition, Undergraduate
(per semester hour) ..... $ 180.00
Tuition, Graduate
(per semester hour) ..... $ 180.00
Room and Board
(15 meals per week) ..... $ 390.00

Other Expenses

The fees listed below are not a part of the traditional tuition and board and room charges

Audit Fee
(per semester hour) $15.00
Late registration fee*** $15.00
CLEP (per test) $35.00
CLEP Credit Recording fee
(per course equivalent for Subject Tests only) $30.00
Portfolio Fee
(per semester hour) $30.00
Contract Course
(per semester hour) $25.00
Examinations:
late final examination fee $15.00
credit by examination (Institutional)
(per credit hour) $25.00
Graduation Fees:
Degree or Certificate $20.00
Academic Regalia $25.00
Absentia $50.00
Renewal Fee $5.00
Music Lessons:
Part-time and Special Students
(per semester hour) $80.00
Applied Music
(per semester hour) $65.00
Private Lesson (Continuing Education)
(per semester hour) ..... Varie
Transcript-after first copy $3.0
Student Teaching Fee $100.0
Appalachian Semester Fee $100.0
Special Lab or Studio Course $25.0
College Court Rental, per month
(all utilities furnished) $180.0

*Vacation periods are not included in the above quotations. Do mitories and food service are closed during vacations and oth periods as noted in the undergraduate calendar. The Colleg reserves the right to entertain delegates to conventions and oth related groups in the residence halls during vacation period Students will be notified in advance of such contemplated occa sions and assurance given regarding the safeguarding of the personal property during such occupancy.
**All board charges are subject to change without notice, pendin contract agreement with the food service.
***Late registration fee can be waived by the Registrar for suff cient reason if permission is requested in advance.
Expenses for May and Summer Sessions are effective June 1, 199. Tuition, fees and other expenses are subject to change. A changes will be announced in the class schedule or through th media.

PAYMENT POLICY

I. Financial Clearance

A student will be cleared for registration only if any previous balance has been paid. The new semester's account must then be paid in full, or a signed payment plan first installment completed. May and summer sessions must be paid in full at the date of registration — no payment plan is permitted for May or summer sessions.

Authorized financial aid will be credited to the student's account and a payment plan set up for the balance. In case the financial aid is anticipated but not yet authorized, the student must pay as a first installment one third of the **total** costs.

II. Finance Charge

A monthly finance charge of one and a half percent (18% APR) will be added to the unpaid balance on student accounts at noon on the last working day of each month.

III. Payment Plan

If the new semester's account cannot be paid before registration, a payment plan can be completed and a first installment paid down. The payment plan requires one-third payment on each of the following dates.

1. On or before fall semester or spring semester registration — one-third.

2. Due September 21 (fall semester) or January 21 (spring semester) — one-third.

3. Due October 21 (fall semester) or February 21 (spring semester).

These dates will allow students who participate in the payment plan to avoid all finance charges, if payments are paid on time. Finance charges will go on all Fall balances beginning the last working day of October, and all Spring balances beginning the last working day of February.

IV. Unpaid Accounts

Any student who owes a balance on his or her account after November 15th (fall) or March 15th (spring) may be subject to withdrawal procedures.

A student having any unpaid balance will not be cleared for the release of an official report of grades, a transcript of credits, or a diploma.

Should collection efforts become necessary to collect an unpaid balance, the student will be responsible for all costs of collection including collection agency and attorney fees.

REFUND INFORMATION

Since faculty contracts and other commitments are made by the College for the entire year in advance, the following refund schedule has been established in order that the College and the student may share the loss equitably when it is necessary for a student to withdraw or make a change in his or her program.

1. A student is considered to be enrolled until he or she completes drop/withdrawal procedures. Necessary forms must be obtained from the Office of the Registrar. All refunds will be based on the date these drop/withdrawal forms are completed and returned to the Office of the Registrar.

2. A full refund may be obtained for a class only if a student has not attended beyond the first session and completes drop/withdrawal procedures with the Office of the Registrar.

3. Any portion of board charges unused up to date of withdrawal will be refunded, except that a full week's board will be charged for any fraction of a week.

4. Tuition and room charges will be refunded on the following basis:

   Regular Semester — Twenty percent of the total for tuition and room will be charged the first week, 40% the second week, 60% the third week, 80% the fourth week. No refund will be given after the fourth week. Any part of a week will be treated as a full week. Refund is based on the tuition charges less $1 class dues, $1 Student Government Association fee, $3 for I.D. card, and $35 activity fee.

May Interim and Summer Sessions — Withdrawal up to the end of the first week will permit a 50 percent refund. No refund will be made after the end of the first week. Any part of a week will be treated as a full week.

5. **Refund of Overpayment on Student Account** — If a student makes an overpayment on his or her account, a written request for refund must be submitted to the Business Office within one year after the end of the last academic term for which the student was enrolled.

6. **Room Reservation Deposit**—This deposit will be refunded if the request is made in writing not later than August 1 for the fall semester or 30 days before the opening of any other semester for which the contract is first effective. Students, once enrolled, must submit a written request to the Vice President for Student Life and Dean of Students at least 30 days before the end of the term, for cancellation of the contract. This deposit will be refunded within 60 days upon receipt of written authorization by the Vice President for Student Life and Dean of Students indicating that the depositor is no longer enrolled as a student at Union College and that he or she has left the housing facility undamaged and does not owe other bills. The request for this authorization must be made within one year after the end of the academic term for which the student was enrolled.

7. **Enrollment Deposit** — $50.00 will be refunded upon receipt of written request prior to August 1 for the fall semester or 30 days before the first day of class for any other academic session. Refund requests should be submitted to the Admissions Office.

FINANCIAL ASSISTANCE

Student expenses. In planning to attend Union College a student should expect the following typical expenses for an academic year; tuition and general fees $7,800, room and board $2,950, books and supplies $550. In addition, allowance should be added to these figures for personal expenses, medical insurance, transportation, and extra charges for special courses (such as laboratory fees, etc.). The Office of Student Financial Aid will consider the total costs for attendance, including the items listed above, when making a financial aid commitment.

Purpose of financial aid program. In addition to its own scholarship funds, Union College participates in all federal programs including the Pell Grant program. Residents of Kentucky are also eligible to receive state tuition grants and loans. Information on Union College scholarships will be found on the following pages.

Students applying for financial aid are considered for all programs for which they are eligible. The amount of financial aid awarded is generally a combination of grant, loan, and employment, and is based on the financial need of the student. Need is determined by subtracting the resources of the student and the contribution of his or her parents from the total student expenses. The parents' contribution is estimated on the basis of the amount of their income and assets as well as a consideration of taxes, medical expenses, and other liabilities of the family. An independent, objective, nationally recognized method of analysis developed by the College Scholarship Service is used to evaluate the family's financial circumstances. All financial aid awards to students are determined by Union College's Office of Student Financial Aid.

Procedures for applying for financial aid. Students must apply for financial aid by submitting both the Free Application for Federal Student Aid (FAFSA) and the Financial Aid Form (FAF) to the College Scholarship Service. Students applying by March 15 will have a greater opportunity. However, financial aid will still be available after this date. The FAFSA and the FAF are used to apply for the Federal Pell Grant, the Kentucky Tuition Grant, the Federal Supplemental Educational Opportunity Grant (SEOG), Federal Work-Study, Federal Perkins Loan (formerly National Direct Student Loan) and any institutional funds. The FAFSA and the FAF may be obtained from a high-school guidance office or the Office of Student Financial Aid. Students should specify 1825 as the code number for Union College in the appropriate section of the FAF.

A Financial Aid Notification along with information about any aid offered will be sent from Union College to each student who applies.

The Financial Aid Office reserves the right to reduce, increase, or otherwise adjust any financial aid for which it is responsible.

Procedures for reapplying for financial aid. A student must reapply for financial aid each academic year. However, aid usually continues at the same level each year unless a student's resources or the expected contribution of their parents change. All enrolled students receiving

aid automatically receive information about applying for renewal awards. Other enrolled students should request applications by February 15.

Students who fail to maintain a satisfactory level of achievement may not receive the following types of financial aid: Federal Pell Grants, Federal Supplemental Education Opportunity Grants (FSEOG), KHEAA State Grants, Union College Scholarships and Grants, Federal Work Study, Federal Perkins Loans, Federal Stafford Loans, Federal PLUS/SLS Loans, other aid involving federal or state sources and funds associated with Union College. A student whose academic performance falls below acceptable guidelines of the College may be placed on academic probation. A student can keep financial aid during the first semester on probation, however, if they continue on academic probation for a second consecutive semester, or fail to complete 50% of the credit hours enrolled they will not retain financial aid. Students are eligible to receive financial aid for a maximum of ten semesters.

A student will receive written notification if financial aid is to be withdrawn. Students who have financial aid withdrawn may appeal to the Admissions and Academic Standing Committee by submitting a letter stating why satisfactory progress was not maintained and any other reasons why aid should not be withdrawn.

Grants

Federal Pell Grant — A program providing direct grants from the federal government. The student receives an eligibility report (as a result of his or her Financial Aid Form application) which can be submitted to Union College for payment. It is expected that the maximum amount for the Pell Grant for 1995-96 will be $2,340.

Federal Supplemental Educational Opportunity Grant (FSEOG) — A program designed by the federal government to assist undergraduate students with exceptional financial need (with priority given to Pell Grant recipients). The grant is permitted to range up to $4,000 per year depending on need and availability of funds.

Kentucky Tuition Grants combined with the CAP Grant — provides grants to students who are residents of the Commonwealth of Kentucky and who demonstrate a need through the analysis of the Financial Aid Form application. The maximum award for 1995-96 will be $2,460.

Employment

Federal Work-Study Program —If a student still requires financial support to meet college costs after the federal and state grants are awarded, the student may be given the opportunity to earn an amount on an hourly basis in a campus department. This employment program is campus-based support from the federal government. Either undergraduate or graduate students can qualify if the Financial Aid Form results indicate a need.

Work-Grant — If a student cannot qualify for employment on the basis of financial need and the College needs the special skills of the student, the student can work for an amount of tuition waiver.

Coop Program with Tremco, Inc. — is available to a qualified sophomore, junior, or senior majoring in chemistry.

Loans

Federal Perkins Loan (formerly National Direct Student Loan) — Federal loan funds are made available to students who have financial need and who maintain satisfactory progress towards graduation. Repayment at a 5% interest rate begins nine months after graduation or withdrawal from school.

Federal Stafford Loan (formerly Guaranteed Student Loan) — This loan program exists in Kentucky and other states as a way to borrow from private commercial lenders to finance college education on the undergraduate and graduate levels. Repayment at 8% interest begins 6 months after graduation or withdrawal for borrowers with loans disbursed prior to October 1, 1992. For first time borrowers with Stafford Loans disbursed after October 1, 1992, the interest rate will be variable, but not higher than 9 percent. Minimum payments are $50.00 a month. Eligibility depends upon at least half-time enrollment status, making satisfactory academic progress, and a reporting of family income by filing the FAFSA and FAF.

United Methodist Student Loan Fund — Students who are members of the United Methodist Church and maintain a "C" average may apply through Union College for a loan at 6% interest

from the Board of Education of the United Methodist Church.

Charles M. and Mary D. Grant Loan Fund — Provided through the generosity of the Charles M. and Mary D. Grant Foundation of New York City, New York.

Hensley Emergency Loan Fund — Established by Mr. and Mrs. Burton F. Hensley of St. Cloud, Florida.

The Russell and Alice M. Hicks Student Loan Fund — The late Russell and Alice Hicks of New Albany, Indiana, have established an endowed student loan fund at Union College through an estate gift.

The Rev. and Mrs. Erwin King Loan Fund — The Reverend and Mrs. Erwin King have established a loan fund at Union College.

The Charles Henry and Glennora Rominger Krieger Student Loan Fund — This loan fund was established by the late Glennora R. Krieger of Ft. Thomas, Kentucky.

Charles E. Schell Foundation Student Loan Fund — Established in 1993 by The Charles E. Schell Foundation. Recipients of these interest free student loans are selected by Union College based on a prescribed criteria established by the Foundation.

The Bryan W. Whitfield-Kentucky Jellico Coal Company Memorial Fund — This endowed student loan fund was established by Bryan W. Whitfield, Jr., of Harlan, Kentucky, in memory of his father, Bryan W. Whitfield, founder of the Kentucky Jellico Coal Company.

Guy H. Williams Loan Fund — Dr. Guy H. Williams of Cleveland, Ohio, has established a loan fund in memory of his wife, Anna Williams.

The Beverly P. and Mossie B. Wilson Loan Fund — This loan fund has been established by Dr. and Mrs. O. J. Wilson of Louisville, Kentucky, in memory of Dr. Wilson's mother and father.

Other Loan Funds — Student loans are available from a number of funds not specifically designated for Union College students, but for which Union College students are eligible. Specific information may be obtained from the Office of Financial Aid.

Institutional Grants/Scholarships

United Methodist Church Grants-in-Aid — Union College will provide grants of $1,000 for full-time United Methodist students and will request the student's home church to consider matching the grant. If the student plans to go into the Methodist ministry or if the student is a dependent of a Methodist minister, then a $1,000 grant will be provided by the College. We encourage recipients to request matching funds from their local church.

The grants are for one year, renewable, and may be applied to any Union College charges (tuition, fees, room and board on campus). A student is eligible for only one of the above grants.

College Employee Scholarships — Full-time employees of Union College are eligible for tuition remission scholarships. Full-time employees hired after January 1, 1975, will not be eligible for tuition scholarships for spouse or children until they have been employed for six months unless they are under annual contract. The spouse and unmarried children of full-time employees hired after June 1, 1982 may receive a Union College Employee Dependent Scholarship equal to 50% of the tuition and charges, with no charges for auditing a course. Other fees are charged in full. Employee Dependent Scholarships will not be granted to children for graduate work. Application for a scholarship must be made through the Financial Aid Office prior to the registration date each term. The FAFSA and the FAF must be filed to determine eligibility for federal and state aid before an Employee Dependent Scholarship will be awarded. A tuition grant at other colleges participating in the Tuition Exchange Program is also available to employees' unmarried dependent children.

Alumni Grants — Dependent children of Union graduates who have received either an associate or baccalaureate degree will be eligible to receive a $500 grant each academic year. This grant is renewable based on a 2.0 grade point average, full-time student status and the grant can be received up to ten semesters of attendance. Students must meet all admission requirements as stated in the college catalog.

Assistantships

Senior Assistantships are available annually. Students must: be enrolled full time, have completed ninety-six hours with a 3.0 minimum

grade point average overall and in their major. The duties of the Senior Assistants include occasional classroom lectures, research, remedial work with beginning students, assisting in laboratories, etc. The assistantships are not intended to cover clerical duties. The assistants are expected to spend up to eight hours per week on the work assigned with the awards ranging up to $1,000 per year. The awards are made by the Admissions and Academic Standing Committee. Candidates are to be recommended by the division chairperson by April 1.

Scholarships

Academic Scholarships for new, full-time freshmen are based upon academic achievement and the results of the ACT/SAT. A range of scholarships are available with the most prestigious award, the Union Scholar Award, being worth up to full tuition each year. These scholarships are renewable based upon a minimum grade point average for each scholarship category.

Valedictorians and Salutatorians are awarded $2,000 and $1,500 respectively and must achieve a score of 24 and 23 on the ACT or 1100 and 1060 on the SAT. An official high school transcript with class rank and certified by the high school attended must be submitted. These scholarships are renewable each year by maintaining a 3.2 cumulative grade point average, or at two-thirds of the original amount for a 3.0 minimum average.

All institutional grants and scholarships are based on the availability of funds with priority being given to those individuals who apply before May 1 of each year.

A student receiving a Valedictorian or Salutatorian award will not be eligible for other academic scholarships.

Junior College Scholarships — for new, full-time students are available to graduates of junior colleges who have earned the A.S. degree with a grade point average (GPA) of at least 2.75 on a 4.0 scale. A range of scholarships from $1,000 to $2,000 are awarded based upon the cumulative GPA. These scholarships are renewable in the senior year if the student maintains the minimum grade point average for the award category.

Alumni Scholarships — The Alumni Association of Union College awards three annual scholarships of up to $1,000 each. Juniors and seniors may get applications from the Office of Alumni Relations in Speed Hall.

Annual Scholarships

The following scholarships are funded by yearly contributions. In years where no gift is made the scholarship is not awarded.

Bank of Harlan Scholarships — Funded by the Bank of Harlan, Harlan, Kentucky.

Barbourville United Methodist Church Music Scholarships — Supported by the First United Methodist Church of Barbourville, Kentucky.

The Doan-Woody Scholarship — Otis Doan, Jr. of Harlan, Kentucky has established an annual scholarship. The scholarship is a memorial to Otis Doan, Sr., father of Otis Doan, Jr., and to Dr. Lester G. Woody, Professor Emeritus of English at Union College.

Irene Hughes Scholarship — Provided by Miss Irene Hughes (AB '37, MA '63) of Barbourville, Kentucky.

Junior Study Club Scholarship — Sponsored by the Junior Study Club of Barbourville, Kentucky.

The Magee Christian Education Foundation Scholarships — Provided by the Magee Christian Education Foundation.

National United Methodist Scholarships — Supported by the Board of Education of the United Methodist Church.

E.O. Robinson Mountain Fund Scholarship — Provided by the E.O. Robinson Mountain Fund of Lexington, Kentucky.

Sanders Honor Scholarships — The late Colonel Harland Sanders of Shelbyville, Kentucky instituted these scholarships. Mrs. Claudia Sanders, his widow and trustee emeriti of Union College, continues the support.

Tremco, Inc. Scholarships — Funded by Tremco, Inc., a division of B.F. Goodrich Company.

Union National Bank Scholarship — Provided by Union National Bank of Barbourville, Kentucky.

Endowed Scholarships

Dr. and Mrs. Edward S. Amis Endowed Scholarships — Established by Dr. and Mrs. Edward S. Amis of Fayetteville, Arkansas. Dr. Amis received Union's Distinguished Alumni Award in 1985.

Ashland First United Methodist Church Scholarship — Established by members of the First United Methodist Church of Ashland, Kentucky.

George L. Bagby Scholarship/Loan Fund — Provided through the generosity of the late George L. Bagby of Woodford County, Kentucky.

William H. and Louella M. Ball Endowed Scholarship — Established by their sons, William H. and Robert C., and other family members and friends.

Barbourville Kiwanis Scholarship — The Kiwanis Club of Barbourville, Kentucky, has supplemented a fund originated by Mr. C.F. Heidrick and established this scholarship fund.

Bell County Scholarship — Established by a friend of Union College from Bell County, Kentucky.

Bryon B. Berry Appalachian Scholarship Endowment — Funded through a gift by Byron B. Berry, a 1935 alumnus.

Henry C. Black Memorial Scholarship — Given as a memorial to Union College graduate Henry C. Black.

John A. and Hannah P. Black Memorial Scholarships for Christian Workers — Endowed by the late Dr. and Mrs. Henry C. Black of Johnson City, Tennessee.

Dr. and Mrs. James F. Blair Scholarships — Established by Dr. and Mrs. James F. Blair of Barbourville, Kentucky.

Thelma Morehead Blair and Robert A. Blair Endowed Scholarship — In memory of Mr. and Mrs. Robert A. Blair by their daughter, Jeanette Blair Ladenburger (a Union College trustee) and son-in-law, John L. Ladenburger.

R.L. Brown Family Endowed Scholarship — Established by Mr. R.L. Brown, Jr., a Union College trustee from Corbin, Kentucky. Mr. and Mrs. R.L. Brown, Sr. were graduates of Union College.

Annette and Berry Burnaw Scholarship — Given by James Burnaw, an alumnus and current Union College trustee, in honor of his parents.

Dr. and Mrs. Carlo B. Cawood Memorial Scholarship — Endowed by the late Dr. and Mrs. Carlo B. Cawood of Harlan, Kentucky.

Mamie D. Chambers Endowment Fund — This scholarship fund was begun by the late Mamie D. Chambers of Maysville, Kentucky.

William Glenn Clark Endowed Scholarship — Established in 1993 through a gift from the estate of Dr. W. Glenn Clark, a 1936 Union graduate.

Class of 1964 Scholarship — Funded by the members of the Union College class of 1964.

Mary Clement Memorial Scholarship — Earl Clement, son of Mary Clement, established this fund in her honor. Mrs. Clement was resident of New Jersey for over eighty years and had a great love for education. Another son, Robert, is a graduate of Union, member of the Board of Trustees, and served as Dean of Students from 1968-75.

Dr. Emerson G. and Edith Cobb Chemistry Endowment Fund — Established by Dr. and Mrs. Emerson G. Cobb of Burson, California. Dr. Cobb is a 1928 graduate and former head of Union's chemistry program and later chair of the Department of Chemistry at the University of the Pacific, Stockton, California. Mrs. Cobb, the former Edith K. Cheap, is a 1929 Union graduate.

The Robert H. Cole Memorial Scholarship — Mrs. Monica M. Cole established this in memory of her late husband Robert H. Cole, a native of Barbourville and former student at Union College. During his lifetime and since his death, the late Mr. Cole and Mrs. Cole have been major donors to the College, having given more than $75,000 for operation and building needs in memory of Mr. Cole's parents, Mr. and Mrs. L.M. Cole, long-term residents of Barbourville. Mr. Cole built a chain of 35 drugstores in Tennessee and neighboring states. He also established the Robert H. Cole Microvascular Surgery Laboratory at the University of Tennessee.

Reverend Howard and Kathryn Coop Scholarship — Established in honor of the Coops by friends in churches where they have served.

Davies Memorial Scholarship — Endowed by the family and friends of Miss Ellen Davies and the late Dr. T.R. Davies.

Dr. Robert M. Drew Endowment Fund — Established by the Commission of Missions of the Hyde Park Community United Methodist Church of Cincinnati, Ohio, in honor of the Reverend Dr. Robert E. Drew.

Dr. Franklin Duncombe Memorial Fund — Mrs. Helen Duncombe of Haverford, Pennsylvania, has established this fund in memory of her late husband.

Alfred I. DuPont Scholarship Fund — Given by the late Mrs. Alfred I. DuPont of Wilmington, Delaware.

Sam Coone Early Endowment Scholarship — Endowed by the family of Sam Coone Early, a student at Union College in the late 1920's.

E. Nettie Edinger Memorial Scholarship — The late Mr. Joseph Edinger established this scholarship in memory of his sister.

Dr. and Mrs. J. Edward Faulkner Memorial Scholarship — This $500 scholarship is awarded to a student who plans a life of service in the healing arts, with preference being given to a pre-dental student.

John D. Feather Scholarships — Funded by the late John D. Feather of Corbin, Kentucky. He was a 1940 graduate of Union College.

R.B. Fenley Scholarship — Endowed by Mr. R.B. Fenley of Louisville, Kentucky. He is a former trustee of Union College.

The GAR Foundation Endowed Scholarships — Provided through the generosity of The GAR Foundation of Akron, Ohio.

President E.T. Franklin Endowed Scholarship — Initiated by Mrs. Grace I. Franklin, widow of former Union College President E.T. Franklin, and other family members.

The Harry L. Frey Scholarship Fund — Harry L. Frey, formerly of Lexington, Kentucky, and a member of the First United Methodist Church of that city, has established an endowment for scholarships for Union College students.

W. Glover Giles Memorial Fund — Established by gifts throughout the life of Mr. W. Glover Giles and by a bequest. Mr. Giles of Louisville, Kentucky is a former trustee of Union College.

John O. and Harriet B. Gross Memorial Scholarship — Endowed by family and friends of Dr. and Mrs. Gross. Dr. Gross served as Union's president from 1929-38.

Hugh and Joyce Haggard Memorial Scholarship — A scholarship fund memorializing Dr. Hugh E. and Joyce A. Haggard, and their children, Walter M. and Stephanie L. Established by the parents and brother of Dr. Hugh E. Haggard.

Hauser and Sanslow Scholarship — This scholarship was established by Elizabeth Hauser Sanslow in memory of her parents, Gus A. and Mary H. Hauser, and her late husband, James H. Sanslow. Her father was a former Superintendent of Buildings and Grounds at Union College.

Dewey and Rachel B. Hendrix Memorial Endowment — Dwight M. Hendrix, an alumnus of Union College and his sister, Mrs. Mary Katherine Hendrix Brashear of Hyden, Leslie County, Kentucky, have established an endowment to memorialize their parents.

Walter S. and Ida Cole Hudson Scholarship Fund — The late Ida Cole Hudson of Barbourville, an alumna of Union College, endowed, through a bequest, a fund to provide scholarships in memory of her son, John Randall Hudson, a first lieutenant in the Air Force and a casualty of World War II.

The Professor Daniel M. Humfleet Scholarship Endowment — Mrs. Bernice Humfleet Aguilera of Natchitoches, Louisiana, has established a $25,000 endowment at Union College in memory of her father, Professor Daniel M. Humfleet, a former faculty member of the College. The scholarship will begin following the lifetime of Mrs. Augilera.

Dr. W.A.E. Johnson Memorial Scholarship — Mrs. W.A.E. Johnson of Lawrenceburg, Kentucky, and friends have endowed a scholarship in memory of her late husband, a Union graduate and long-time friend of the College.

The Ollie Cole Jones Scholarship Endowment — Mrs. Ollie Cole Jones, a native of Barbourville and a 1913 Union College alumna, has established a scholarship endowment in memory of Mrs. Ida Cole Hudson's son, John Randall Hudson, a first lieutenant in the Air Force and a casualty of World War II.

Professor and Mrs. Millard L. Jordan Scholarship — Established by Professor and Mrs. Millard L. Jordan of Lakewood, Ohio.

Kentucky River Coal Corporation Scholarship — Provided through the generosity of the Kentucky River Coal Corporation, Lexington, Kentucky.

The Kilgore Endowed Scholarship — "Sometimes all it takes for a person to get a good education is a little help on the first step." The endowment has been founded by Dr. Shirley Kilgore Weber, a native of Corbin, Kentucky, and professor at Rutgers University for many years. The yield from this endowed scholarship is designated for the scholarship.

Jeffrey W. Kronk Memorial Scholarship — Established by Mr. and Mrs. Walter F. Kronk of Huntsville, Ohio, in memory of their son, Jeffrey, who was enrolled at Union College from 1963 through 1967.

Verna Noe Landrum Memorial Scholarship — Established by Mr. John W. Landrum of Harrodsburg, Kentucky, in memory of his mother, Mrs. Verna Noe Landrum.

W.B. Landrum Memorial Scholarship — Given in memory of W.B. Landrum by his son, John W. Landrum of Harrodsburg, Kentucky.

Dr. Jean Letch Education Scholarship Endowment Fund — Established by an anonymous donor in honor of Dr. Jean Letch, Professor Emeritus of Education at Union. A portion of the interest will be used to purchase a plaque to be presented at Honor's Day to the outstanding education student of the year. It will be called the Dr. Jean Letch Education Award.

Dorothy Lucas Memorial Fund — Established in memory of Miss Dorothy Lucas, registrar of Union College for many years and beloved friend of students.

The Robert and Tilitha Meade Memorial Scholarship Fund — This fund has been endowed by Mrs. Nancy Meade Ford of Naples, Florida. Mrs. Ford attended Union College and is a native of Letcher County, Kentucky. She was a public school teacher for many years.

Gayle Miles Scholarship — An endowed scholarship has been established by friends and former students of the late Gayle Miles. Miss Miles taught at both Barbourville Elementary and Union College.

John and Minnie B. McGaffee Trust Fund — Dr. and Mrs. O.J. Wilson of Louisville, Kentucky, have established the John and Minnie B. McGaffee Trust Fund.

Drs. Robert and Gertrude McGuire Endowed Scholarship — Funded by Drs. Robert and Gertrude McGuire, graduates of Union College. Dr. Gertrude McGuire is a Union College trustee.

Vertie Ruth Norsworthy Endowed Scholarship — This scholarship fund was established through a bequest by the late Vertie Ruth Norsworthy.

Mr. and Mrs. Hiram H. Owens Memorial Scholarship — Mrs. Sampson B. Knuckles (Jean) and the late Mrs. Buford T. Clark (Eleanor) have endowed a scholarship in memory of their parents, Mr. and Mrs. Hiram H. Owens. Mr. Owens was a well-known lawyer and Mrs. Owens (Georgia Black) was the daughter of James D. Black, a governor of Kentucky and a president of Union College. Mrs. Knuckles is a former Union College trustee.

The Frances L. Patridge Scholarship — Friends have endowed a scholarship in honor of Dr. Frances Patridge, a friend and employee of the College longer than any other faculty member, with over 40 years of service. Her last title was Vice President for Student Affairs. Dr. Patridge is currently Associate Professor Emeritus of Health and Physical Education.

Emory Evan Peter Memorial Endowment — The late Mrs. Laura P. Dickey of Louisville, Kentucky, established this endowment fund in memory of her brother, Emory Evan Peter.

Ivan Pettys Scholarship Fund — Friends and family of the late Dr. Robert V. Pettys, Professor Emeritus of Business, have established this scholarship fund in honor of Dr. Pettys' father.

Donald Rankin Memorial Scholarship — Friends of Donald Rankin, a Union College student killed in Vietnam, have provided this scholarship.

Milton M. Ratner Foundation Scholarship and/or Student Loan Endowment — Provided through the generosity of the Milton M. Ratner Foundation, Southfield, Michigan.

The Dr. H. Warren Robbins Scholarship — Mrs. Ruth Ann Payne Hicks, a 1972 Union graduate, member of the Union College Board of Trustees, and vice president of the Dual Machine and Tool Corporation of Indianapolis, Indiana, has established this scholarship. Dr. Robbins served Union College for thirty-five years and was Dean of Graduate Academic Affairs for fifteen years. He is presently Professor Emeritus of Education.

The Marvin Robbins Endowed Memorial Scholarship — An endowed scholarship established in memory of Mr. Marvin Robbins, a graduate of Union College.

Sue P. Rosenbalm Scholarship — Established by Mrs. Sue P. Rosenbalm of Ewing, Virginia, a 1949 Union College graduate.

Dr. and Mrs. Phillip A. Sharp Endowed Scholarship — Through the generosity of Dr. and Mrs. Phillip A. Sharp, Newton, Massachusetts, both are Union graduates. Dr. Sharp, who is head of the Department of Biology at Massachusetts Institute of Technology in Cambridge,

Massachusetts, was the co-recipient of the Nobel Prize in Medicine in 1993.

Sims Scholarship Fund — Established by Reverend and Mrs. Harry C. Sims of West View, Kentucky.

Catherine Faulkner Singer Memorial Scholarship — Initiated in honor of Catherine Faulkner Singer by her daughter, Marcia, her son, Donald, friends and alumni. Mrs. Singer was Director of Alumni Affairs from 1961 to 1978.

Cawood Smith Harlan County Scholarship — Provided through the generosity of Dr. Cawood Smith, attorney formerly of Harlan County, Kentucky.

Margaret Carter Stacy Scholarship Fund — Endowed by Margaret Carter (Mrs. Cortis K.) Stacy of West Liberty, Kentucky. Mrs. Stacy is a strong United Methodist and has a deep interest in higher education.

Dr. and Mrs. Charles B. Stacy Memorial Scholarship Fund — Established in memory of Dr. and Mrs. Charles B. Stacy of Pineville, Kentucky. Dr. Stacy was a long-time friend of Union College.

Charles R. Steele Memorial Scholarship Fund — Martha Brittain Steele has established this scholarship as a memorial to her late husband, Charles R. Steele, a 1933 graduate of Union College.

Steele-Reese Foundation Endowed Scholarships — Provided through the generosity of the Steele-Reese Foundation of New York City.

Stevens Family Scholarship Fund — Established by Dr. and Mrs. Erland P. Stevens of Ashland, Kentucky. Dr. Stevens is Chairman Emeritus of the Union College Board of Trustees.

William S. Stewart and Lou Lyttle Stewart Endowed Scholarship Fund — Established in 1993.

Lewis Ogden Stiles Endowment Fund — The late Mrs. Lewis Ogden Stiles of Waco, Texas, established this fund to memorialize her late husband, Lewis Ogden Stiles, and his first wife Pearl Long Stiles, both faithful United Methodists of Irvington, Kentucky.

Walter B. and Geraldine G. Sutton Memorial Scholarship — Endowment provided by the daughters of Mr. and Mrs. Sutton: Carla Sutton Combs and Lynn Sutton Prichard.

Lytle and Dorothy Swope Scholarship — Dr. Samuel G. Swope of Louisville, Kentucky, a trustee of Union College, and F. William Swope of Elizabethtown, Kentucky, have established a scholarship endowment as a memorial to their parents.

Hulbert Taft, Jr., Memorial Scholarship — Mrs. Thomas C. Haydock, Sr., of Cincinnati, Ohio, has provided a scholarship endowment as a memorial to her late husband, Hulbert Taft, Jr.

The Dot Tatman Endowed Scholarships — Established by the Reverend Dr. Harold W. Tatman, Jr., (a Union College trustee) in honor of his wife, Dot.

Teagle Foundation Appalachian Scholarships — Given by the Teagle Foundation of New York City. The foundation was established by Walter Clark Teagle, Rowena Lee Teagle, and Walter C. Teagle, Jr.

Edward Townsend Memorial Scholarship — The late Dr. Milton H. Townsend, former Vice President of Union College and Assistant to the President for External Affairs, endowed this scholarship in memory of his father.

The Milton H. Townsend Memorial Scholarship — This scholarship was established by Mrs. Betty Townsend, the family and friends of Dr. Milton H. Townsend. At the time of his death, Dr. Townsend had served Union College for 42 years in various capacities, the latest being that of vice president for the College and assistant to the president for external affairs.

Allan Tuggle Scholarships — These scholarships were funded by Allan Tuggle, M.D., of Charlotte, North Carolina, an alumnus of Union College.

Harry C. Viall Memorial Scholarship — Mrs. Harry C. Viall of Barbourville, Kentucky, has endowed a memorial scholarship in memory of her late husband, Harry, who was a prominent local businessman.

Mr. and Mrs. O. H. Viall Memorial Scholarships — The family of Mr. and Mrs. O. H. Viall of Barbourville, Kentucky, has established a memorial scholarship fund at Union.

Robert E. and Ann Viall Endowed Scholarship — Established by Mr. and Mrs. Robert E. Viall of Barbourville, Kentucky. The late Mr. Viall was a Trustee Emeritus of Union College.

The Nevil and Ethel White Memorial Endowed Music Scholarship — This scholarship was given by family and friends of Dr. and Mrs. White. Mrs. White was a former member of the music faculty at Union College. Dr. White, her late husband, was a graduate of Union College

and served as secretary of the Union College Board of Trustees for many years.

William M. Wilson Memorial Scholarship — The late Mrs. Eva Oldfield Wilson of Barbourville, Kentucky, established a scholarship fund in memory of her late husband.

Dr. C.R. Wimmer Endowed Chemistry Scholarship Fund — Established by Mrs. C.R. Wimmer and friends. Dr. Wimmer was professor of chemistry, head of the Chemistry Department, and director of the Department of Physical Sciences from 1932 to 1946. He was also academic dean at Union from 1934 to 1946.

Dr. Henry M. Zimmerman Scholarship — Provided by the late Dr. Henry M. Zimmerman of Pompano Beach, Florida.

Other Endowments

Russell M. Bennett Memorial Professor of Sociology Chair — Endowed in 1946 by Mrs. Helen Hunt Bennett.

The Cumberland Gap Genealogical Collection — This collection has been endowed by Dr. Robert M. Blake of Maysville, Kentucky, in memory of his late wife, Mrs. Noma Osborne Blake, who was a Barbourville native and a proponent of preserving the heritage of the mountain families of the tri-state area of Eastern Kentucky, Eastern Tennessee, and Southwestern Virginia. The collection is under the supervision of the Union College library staff and volunteers from the region.

Andrew and Emma Elizabeth Edinger Memorial Fund — This fund was established by the late Mr. Joseph Edinger in memory of his mother and father. The fund has been increased by other members of the family and the income designated for use in the maintenance of campus buildings.

James P. Faulkner Memorial Endowment — James P. Faulkner of Barbourville, Union College president from 1897 to 1905, gave property to the College, which was later sold. The income from this investment is used for salary support for a faculty member in philosophy.

The Raymond W. Gibson, Sr., Chapel Endowment — Mr. Raymond W. "Deacon" Gibson, Senior, of Danville, Kentucky, established an endowment at Union College in 1979 for the upkeep and maintenance of the Conway Boatman Chapel. His son, Raymond W. Gibson, Jr., served as Campus Minister at Union College from 1974 to 1979 and is currently a Union College trustee. The late Mr. Gibson, a prominent layman in the Kentucky Conference of the United Methodist Church, was a long-time friend of Union College.

Dr. Frank A. and Mrs. Eleanor Gilbert Biology Faculty Endowment — The late Dr. and Mrs. Frank A. Gilbert established a Biology Department Endowment to augment the salaries of the biology faculty. The annual supplement will be in addition to regular salaries. Dr. Gilbert was professor emeritus of biology at Union College.

The Charles M. and Mary D. Grant Faculty Endowment — The Charles M. and Mary D. Grant Foundation of New York City has provided an endowment for faculty development at Union College. The yield from this fund will support increased faculty salaries and professional advancement for the faculty members. The endowment was established in 1989.

The Margaret Voorhies Haggin Trust — of New York City has contributed to the Union College Endowment Fund. The yield from this fund will support increased faculty salaries and professional advancement for the faculty members. The endowment was established in 1989. The trust contribution is in memory of the late James B. Haggin of Lexington, Kentucky.

Anna E. and John William Harris Memorial Fund — The late Dr. J. William Harris established a lectureship fund in memory of his sister, Anna E. Harris, and his father, John William Harris.

The William Randolph Hearst Foundation — of New York City has established an endowment for faculty development at Union College. The yield from this fund will be used to support increased faculty salaries and professional advancement for the faculty members. The endowment was established in 1987.

The Ray C. Hensley Business Simulation Center Endowment — This has been established by Cavalier Construction, Inc., of Springfield, Ohio, as a memorial to Ray C. Hensley, the father of Pamela K. Hensley Shay, an alumna and former faculty member at Union College. This was established in 1990.

The Kenneth G. Herrick Faculty Endowment — Kenneth G. Herrick of Tecumseh, Michigan, has established a Faculty Development Endowment at Union College. The yield from this fund will support increased faculty salaries and professional advancement for the faculty. This endowment was established in 1986.

Charles and Leona Jennings Memorial Funds — Dr. Charles M. Jennings of Marietta, Georgia, has established an endowment fund in memory of his parents, Charles and Leona Jennings, the income from which is to be used to provide an annual bonus to the head of the Department of Biology at Union College.

The Christian A. Johnson Endeavor Foundation Endowment for Faculty Development — The Christian A. Johnson Endeavor Foundation of New York City has established an endowment to support Union College's faculty enrichment program. The yield from the endowment will support professional growth opportunities for faculty members and increased faculty salaries. The endowment was established in 1992.

William Jones Endowment Fund — The late Mr. William Jones of Barbourville, Kentucky, established a fund, the income from which is designated for use by the music department to purchase recordings and musical scores.

Jeffrey Kronk Memorial Endowment — This endowment, established by the Senior Class of 1967, in memory of Jeffrey Kronk, a member of that class, will assist in purchasing books for Union College's Lincoln-Civil War Collection.

Francis Landrum Memorial Professor of Religion and Philosophy — The late Mrs. Obed J. Wilson established the Francis Landrum memorial professorship through a bequest in 1927.

Melanie Jean Martin Trust Fund — Dr. and Mrs. O. J. Wilson, of Bowling Green, Kentucky, have established a memorial fund in memory of their granddaughter. The income from this fund is used to purchase library books to support the work of the English department.

Pearl Sinnett Meyer Memorial Fund — The Rev. Dr. Jesse I. Meyer has established an endowment fund in memory of his wife, Mrs. Pearl Sinnett Meyer. The income of this fund is designed for the purchase of books for the Union College library.

The Mahlon A. and Laura J. Miller Lectures — President Emeritus and Mrs. Mahlon A. Miller have established a lectureship endowment to bring to the campus from time to time distinguished persons to lecture on the general theme, Science and/or Technology, and Christian Doctrine and/or Values.

The Teagle Foundation Faculty Development Endowment Fund — The Teagle Foundation of New York City has established an endowment to support Union College's faculty enrichment program. The yield from this fund will be used to support faculty salary increases and professional development opportunities for faculty members. The foundation was established by Walter Clarke Teagle, Rowena Lee Teagle and Walter C. Teagle, Jr.

Allan Tuggle Endowment Fund — Allan Tuggle, M.D., of Charlotte, North Carolina, an alumnus of Union College, has established a fund, which may be augmented from time to time, the income from which is designated for scholarships, awards, and instructional support in mathematics and physics.

Willson-Gross Lectures — The late Dr. and Mrs. James Wilson of Floydada, Texas, established a lectureship endowment in memory of Dr. and Mrs. John Owen Gross. The purpose of the lectures is to bring annually to the campus distinguished speakers to discuss vital issues confronting the Christian student.

Colutha J. Taylor Wright Memorial Fund — The late Mr. J. S. Wright of Whitley City, Kentucky, established an endowment fund in memory of his wife, Mrs. Colutha J. Taylor Wright.

Awards

Note: These awards may be presented at the annual Honors Day Convocation. Some are academic in nature; to be eligible for such awards, students' academic records should not include any grades of "incomplete." Postgraduate students are ineligible to receive these awards.

Alpha Psi Omega Award — given by the Director of Union College Theater to the senior who has made outstanding contributions to Union College theater over a period of years.

Bjornstad Freshman Composition Award — given by the late Dr. William Bjornstad, a former faculty member of Union College, and Mrs. Bjornstad, to the student achieving the highest writing excellence in freshman composition courses as determined by the English Department.

Governor James D. Black Senior Award — given by the late Mr. Pitzer D. Black of Barbourville to the senior with the highest scholastic average for the year.

Blackwell Political Science Memorial Award — given by the late Dr. Robert Lee Blackwell to the senior majoring in history and/or political science showing the highest academic excellence in the field of political science.

Dr. Erwin S. Bradley History Award — given to an upperclass history major who has the highest scholastic average in over-all grades in history earned at Union College.

Melva and Kathy Brick Award — given by Mr. Theodore F. Brick, family and friends to the student showing the highest proficiency in competitive swimming.

Calculus Award — given by a friend of the College to the student with the highest cumulative average in all three calculus courses offered at Union.

Campus Activities Board Award — given by the Campus Activities Board to the junior or senior member who has contributed the most to the Board and to student activities at Union College during the current academic year.

Campus Activities Discretionary Fund Committee Student Organization Achievement Award — given by the Campus Activities Discretionary Fund Committee to the campus organization which, in the committee's opinion, has contributed the most toward campus activities during the academic year.

Campus Ministry Award — given to the senior who, by his or her actions, exemplifies selflessness and concern for the needs and well-being of others as determined by the office of Campus Ministry.

Chemical Rubber Company Freshman Chemistry Award — given by the Chemical Rubber Company Press of Boca Raton, Florida, to the outstanding freshman chemistry major showing outstanding academic achievement in chemistry.

Dr. Theodore R. Davies Senior Biology Award — given in memory of the late Dr. Theodore R. Davies to the senior student showing the highest academic excellence in the field of biology.

Eastern Kentucky Essay Award — given by the late Dr. Kenneth H. Tuggle, a former trustee of Union College, to the student writing the best essay on Eastern Kentucky history.

Engineering Award — given by a friend of the College to the student with the highest cumulative average in pre-engineering courses taught at Union College.

Evans, Phillips & Company Scholarship Award — given by Evans, Phillips & Company, C.P.A.'s of Barbourville — an annual $500 scholarship to be awarded to the most promising freshman or sophomore accounting major. The scholarship is to be used in the fall semester. The recipient also receives a plaque and a cash award.

Gamma Beta Phi Award — given by Gamma Beta Phi to the full time student with the highest cumulative average in hours earned at Union College.

Dr. L.A. Geiss Computer Award — given by the late Dr. and Mrs. L.A. Geiss, to the student exemplifying excellence in computer information systems. Dr. Geiss was a Union College trustee.

Dr. L.A. Geiss Junior Award — given by the late Dr. and Mrs. L.A. Geiss, to the junior majoring in accounting with the highest cumulative standing in that field. Dr. Geiss was a Union College trustee.

Dr. L.A. Geiss Senior Award — given by the late Dr. and Mrs. L.A. Geiss, to the graduating senior majoring in business with the highest cumulative standing in the field. Dr. Geiss was a Union College trustee.

Dr. Albert D. Graham, Jr., Social Studies Award — given by Dr. Albert D. Graham, Jr., to the senior education major who shows the greatest teaching potential in social studies.

Joe C. Hacker Award — given by a friend of Union College in honor of Mr. Joe C. Hacker who was a member of the Union College faculty for over thirty years. This award is given to the student showing interest and excellence in a first computer programming course.

Health and Physical Education Faculty Award — given by the Union College Health and Physical Education Department to the senior Health or Physical Education major with the highest cumulative academic standing.

Iota Sigma Nu Freshman Award — given by the Iota Sigma Nu Honor Society to the freshman with the highest scholastic average for the year.

Iota Sigma Nu Sophomore Award — given by the Iota Sigma Nu Honor Society to the sophomore with the highest scholastic average for the year.

H.B. Jones Business Enterprise Award — given in memory of Mr. H.B. Jones to the student who has shown initiative and enterprise in the field of business.

Steve Jones Memorial Award — given in memory of Steve Jones, a former Union College student, to the senior varsity letterperson with the highest cumulative academic average.

The Journalism Award — given by the English, Journalism, and Foreign Languages Department of Union College to the English major with journalism emphasis who has done the most to promote high journalism standards at Union College and who shows the greatest promise for success in a professional journalistic career.

The Literature Award — given by the Barbourville Tuesday Club to the student majoring in English who shows the greatest excellence in the field of literature.

Marigold Microcomputer Lab Award — given by the Union College Business Department in honor of Mrs. Connie Marigold, whose assistance and enthusiasm have greatly contributed to the development of the microcomputer laboratory. This award is given to the microcomputer laboratory assistant who has best demonstrated excellence through service to students and faculty in the microcomputer laboratory.

Mathematics Award — given by a friend of the College to the graduating math major who has the highest cumulative average in math courses at Union College.

Dr. Mahlon A. Miller President Emeritus Award — given by Dr. and Mrs. Mahlon A. Miller to the senior with the highest cumulative average earned at Union College. Dr. Miller served as President of Union College from 1959-1982 and is currently President Emeritus.

Rena Milliken Award — given in honor of Miss Rena Milliken, Professor Emeritus of Business at Union College, by the Union College Business Department to the graduating senior who shows the greatest potential for professional achievement.

Dr. Paul Muncy Memorial Award — given in memory of Dr. Paul Muncy to the senior premedical student with the highest cumulative academic standing.

Music Faculty Award — given by the Union College Department of Music and Fine Arts to a music major for his or her interest, initiative, cooperation, musical ability, academics and service to the Music Department.

National Education Association — Student Program Award — given by the Union College Chapter of the National Education Association — Student Program to the graduating senior showing the greatest excellence in the field of education.

H.H. Owens History Award — given by the late Mrs. H.H. Owens to the student showing the greatest excellence in the field of history.

Laws and Esten Parks Award — given by Dr. S. Laws Parks, former Vice President for Business Affairs at Union College, and Mrs. Parks, to the senior religion major with the highest cumulative academic standing.

Patridge Theta Pi Delta Awards — given by the "Union Express" staff in honor of Dr. Frances Patridge, Associate Professor Emeritus of Health and Physical Education and former Vice President for Student Affairs at Union College, to seniors who represent the qualities of outstanding service exhibited by Dr. Patridge.

Phoenix Award — given by the drama faculty of Union College to the freshman or sophomore who stands as the hope of the future by contributing the most to Union College theatre in the academic year.

Physics Award — given by a friend of the College to the senior showing the greatest excellence in physics.

William Faulkner Rushton Awards for Appalachian Literature — given in memory of William Faulkner Rushton. These awards have been established by parents and friends in honor of Mrs. Lura Faulkner Rose, the late Mr. Rushton's grandmother. Awards will be given to Union College students and students from a Knox County high school. Winning papers will be selected by a committee of judges from entries submitted by classroom teachers.

Sampson Political Science Award — given by the late Governor Flem D. Sampson to the junior showing the highest academic excellence in the field of political science.

William Hugh Smith Memorial Award — given in memory of the Reverend William Hugh Smith to a pre-ministerial or Christian-service student (with preference being given to a Christian-service student) who shows promise in the ministry.

Outstanding Sociology Major Award — given by the Social Science Division faculty to the graduating sociology major with the highest cumulative grade point average.

Hattie Stanberry Ecology Award — given in memory of Hattie Stanberry, an alumna and former faculty member, to the student or organization that has made a contribution to environmental improvement during the current academic year.

Student Government Association Award — given to the newly elected Student Government Association President.

Student Government Association and Campus Activities Board Certificate of Service Award — given by the Union College Student Government Association and Campus Activities Board to a member of the Union College staff for his or her contributions to the Student Government Association and Campus Activities Board during the past year.

Student Government Association Distinguished Professor Award — given by the Union College Student Government Association to a member of the Union College faculty.

Katherine V. Sutphen Memorial Award — given in memory of Katherine V. Sutphen, a former faculty member of Union College, to the student who has used his or her talents best during the current academic year in serving the Union College Music Department.

Judge W.W. Tinsley Family Memorial Award — given by the late Mrs. Mayo Tinsley Rathfon to the junior or senior preparing for a legal career showing the greatest promise for future success.

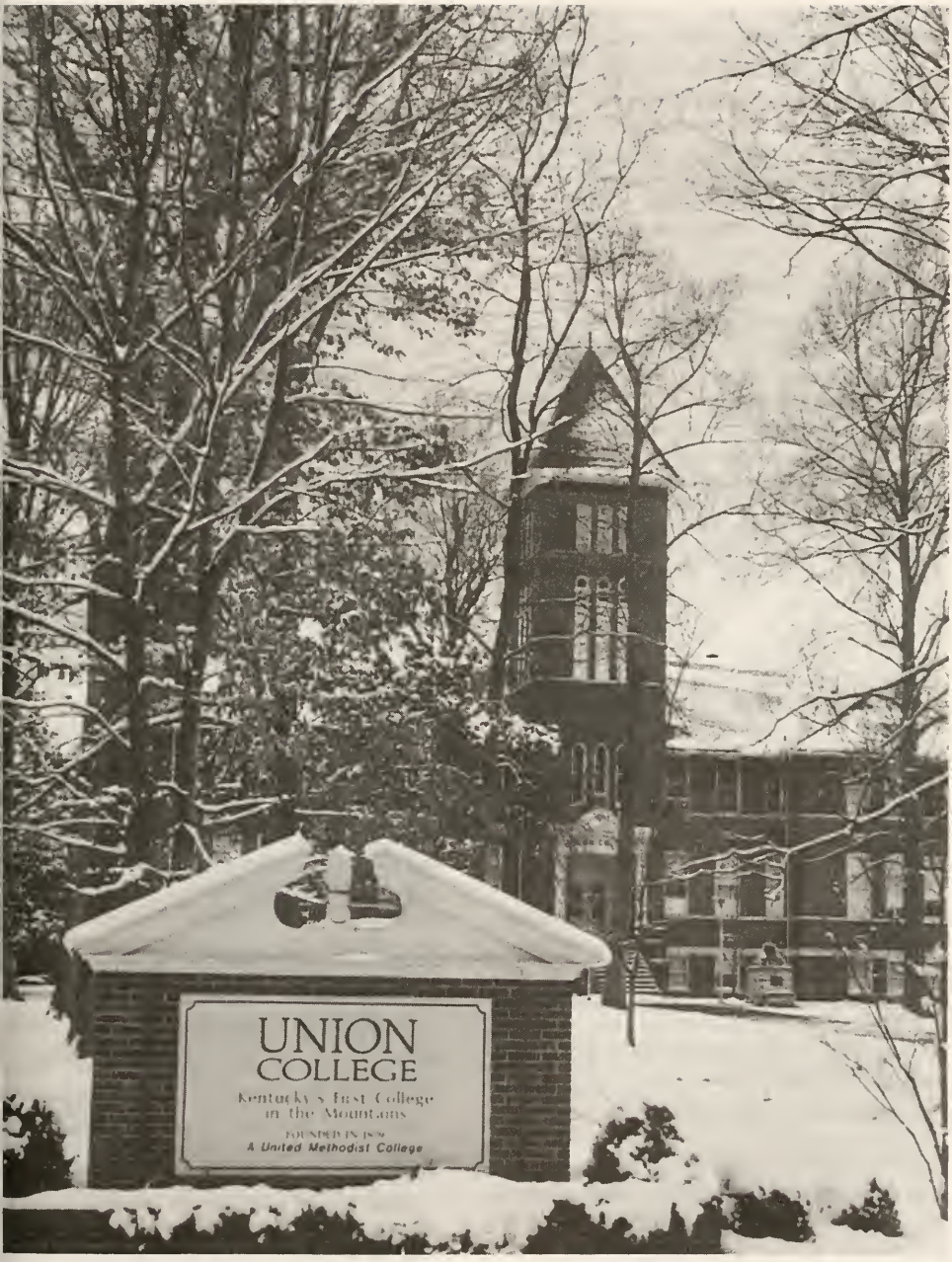
Tremco, Inc. Award — given by Tremco, Inc. of Barbourville to the junior majoring in chemistry showing the highest academic excellence as determined by the science faculty.

Beverly P. and Mossie B. Wilson Memorial Award — given by Dr. and Mrs. O.J. Wilson in memory of Dr. Wilson's parents to the English major with the highest cumulative grade point average who has completed three full years of residence at Union College.

Dr. Cecil H. Wilson Junior Award — given by Dr. Cecil H. Wilson, an alumnus and trustee of Union College, to the junior with the highest scholastic average for the year.

John Henry Wilson Sophomore Award — given by Mrs. Guy D. Atkisson, Jr., of St. Petersburg, Florida, the granddaughter of the late John Henry Wilson of Barbourville, to the sophomore from the Fifth Congressional District of Kentucky who has the highest scholastic average for the year.

Wimmer Chemistry Award — given by Mrs. Connie Wimmer in memory of her husband, Dr. C.R. Wimmer, to the student showing the greatest promise in the field of chemistry. Dr. C. R. Wimmer was head of the Chemistry Department at Union College from 1932 to 1946. He also served as academic dean during this time.



THE ACADEMIC PROGRAM

Academic Calendar

Union College operates on a semester system. The Fall semester begins in late August and ends before Christmas. The Spring semester runs from January to early May. The College has a special three-week May interim session as well as two five-week summer terms.

Freshman Seminar

Union College requires all full-time incoming freshmen to take the Freshman Seminar course. Classes for this one-hour course meet twice a week for a seven-week period. The goal of the course is to maximize the students' potential to achieve academic success and to adjust responsibly to the individual and interpersonal challenges presented by collegiate life. Each course will cover a variety of topics considered essential to meeting this goal.

Course Load

The normal undergraduate student load is sixteen semester hours per semester. Students who have an average academic standing may register for a maximum of eighteen semester hours credit per semester. Students who attain a "B" average are permitted to earn up to twenty-one semester hours per semester. Exceptions must be approved by the Vice President for Academic Affairs.

The maximum load in the May interim is three semester hours. The maximum load in each summer term is six semester hours. Students whose cumulative grade point average is "B" or better may request permission from the Vice President for Academic Affairs to take seven hours during each regular summer term.

Class Attendance

1. Class attendance is required. Each student is responsible for all work from the first day of class and is expected to attend all meetings of the class for which he is registered. This is regarded as a matter of individual student responsibility.
2. All faculty members are expected to keep accurate records of class attendance.
3. Class absences due to circumstances beyond the control of the student will be excused by the teacher involved if the request is made within one week of return to campus. Class work or tests in these classes must be made up.
4. Class work and tests missed due to illness of a student can be made up only when the student presents the teacher with a valid excuse when he returns to class.
5. Class work and tests missed by the student while he is participating in an activity sponsored by Union College may be made up only when the faculty sponsor of such an activity signs the official absence list of students.

Withdrawal From Courses

A student is not automatically withdrawn when he stops attending a class. Official withdrawals are made only on forms provided by the Registrar's Office. It is the student's responsibility to complete this form, obtain the signatures needed, and return it to the Registrar's Office. Failure on the part of a student to follow this withdrawal procedure will result in a grade of "F" for the term.

Course Numbering System

Courses numbered 100 or 200 are intended primarily for lower division students and 300- and 400-level courses are generally reserved for upperclassmen. Freshmen or Sophomores desiring to enter 300- or 400-level courses should confer with the division chairperson involved for permission to enroll. 500-level courses are restricted to graduate students.

Courses with hyphenated numbers (101-102) are used when the first semester is prerequisite to the second.

Reserved Course Numbers

Some special numbers are reserved for specific types of courses or studies. They may be used in any department although they are not shown in the following pages under the specific listings.

001-099	Non-credit special interest courses.
181, 281, 381, 481,581	"Special Topics" courses — classes developed on a one-time or experimental basis, or a special innovative class.

282, 482, 582	Special workshops, credit or non-credit.
183, 283, 483, 583	Television courses through Kentucky Education Television Network.
184, 284, 384, 484	May interim courses not listed under a regular catalog number.
285, 485	Experiential Education — Study abroad, internships, cooperative work, experience and vocational work experience.
287, 487	Field Practicum in specialized areas.
495, 595	Independent Study — individual research on approved topics not found in traditional courses. May be repeated on different topics.

Special Notations

Each course description indicates the semester the course will be offered — (F) for Fall Semester, (S) for Spring Semester, and (Sum) for Summer Session.

Many regular year courses are offered in summer sessions but are not guaranteed offerings.

Courses indicated as being offered in "Even Years Only" are offered on an alternate year basis in academic years *beginning* with even numbers, such as 1978-79. "Odd Years Only" courses are offered on an alternate year basis in academic years *beginning* with odd numbers, such as 1979-80.

Students should consult regularly with their advisors to ensure proper progress toward their degree. In the junior year, a curriculum plan will be done by the Registrar. This will indicate the courses the student has already completed toward the degree major on file in the Registrar's Office. **Each student is responsible for completing all requirements.**

The Grading System and Quality Points

Marks are reported in letters as follows:

A —Represents distinctly superior work, valued at four quality points for each semester hour.

B —Represents above average work, valued at three quality points for each semester hour.

C —Represents average work, valued at two quality points for each semester hour.

Cr —Indicates that a course has been passed satisfactorily.

D —Represents inferior but passing work, valued at one quality point.

F —Indicates failure with 0 credits and 0 quality points for each semester hour or failure to officially withdraw from a course.

NP —Indicates Course In Progress - For Developmental studies courses only.

Beginning with the 1995-96 academic year, plus or minus may be added to the final grades and appear on the transcript; however, that will not affect the grade point average.

The "NP" is given for the student who is still in the process of mastering the skills in the developmental course(s). This grade does not negatively affect the GPA as an "F" does. The student must register for the course the next enrolled semester or the "NP" becomes an "F". The "NP" is used only in developmental courses when students are showing satisfactory progress in mastering the content of the course.

W —Indicates that a student withdrew during the first 12 weeks of the semester.

I —Indicates that in the opinion of the instructor the student has not been able to complete the required work of the course on time due to unavoidable circumstances.

An "I" received at the end of any semester must be removed before the end of the next semester if the student is enrolled for that term. If the student is not enrolled, the "I" must be removed before the end of the 12 month period following the date on which the "I" was received. Any exceptions to the time limit must be made by agreement of the instructor, division chairperson, and Registrar. If an "I" is not removed within that time limit, it remains on the permanent record and cannot be made up.

Quality Point Standing

The quality point standing of a student is determined by dividing the total quality points which he has earned by the total number of semester hours for which he has registered minus the number of hours of Credit and Incomplete on his record.

Classification of Students

Freshman	less than 32 semester hours
Sophomore	32 semester hours
Junior	64 semester hours
Senior	96 semester hours

Credit/Fail Option

The purpose of the Credit/Fail option is to provide the opportunity for students to explore elective courses outside their area, major, or minor without engaging in competition with students specializing in those subjects and without jeopardizing their grade point average.

This option excludes all courses in the Liberal Education Core and any area, major, or minor. It is available only to those students with at least sophomore classification and those maintaining a 2.0 grade point average. This option is also available to transfer students of sophomore classification and who have completed at least twelve hours of satisfactory work at Union College.

This option allows that no more than fifteen semester hours may be applied toward graduation with a Bachelor's degree, no more than two courses per academic year (July through June), and only two courses in any single discipline. No more than nine hours may be applied toward graduation with an Associate degree.

A student must apply in the Registrar's Office for the Credit/Fail option by the last date identified in the current academic calendar to withdraw from a course with a grade of "W". It is a matter between the Office of the Registrar and the student. The information is not available to instructors except when the student communicates the same to the instructor. A grade of "D" or above will be recorded as CR and an "F" will be recorded as such.

Examinations and Reports of Marks

Examinations are held at the close of each semester. Tests are held at such times during each semester as the instructors may determine. Mid-semester and semester grades are reported by the instructors to the Registrar. Mid-semester grades are sent to the students' advisors as soon as possible, and students may obtain these grades from their advisors. Copies of final se mester grades are mailed to the address desig nated by the student. Only final grades becom a part of the student's permanent record.

Grade Appeal

Students are entitled to redress any grievance relative to grades. Please refer to the studen handbook or contact the Office of Academic Af fairs.

Honor Students

Union College recognizes excellent scholar ship in three ways: The Dean's List, the Presi dential Laureates, and graduation with honors

The Dean's List is comprised of those student who have completed at least 12 hours of grade work with a 3.25 grade point average and n grades of "I" for the semester. This list is pub lished after the fall and spring semesters.

Presidential Laureates are those students wh meet all requirements for the Dean's List an achieve at least a 3.75 grade point average fo two successive semesters with at least 12 hou of graded work and no grades of "I" in eac semester. The two summer sessions may b counted as one of these semesters if the min mum hours have been earned. The list of stu dents designated as Presidential Laureates published after the fall and spring semester.

Appropriate certificates are given in recogn tion of both of these achievements.

Academic Probation and Suspension

Students falling below the following grac point average and corresponding minimum s mester hours will be placed on Academic Pr bation:

Freshmen 1.8

Sophomores (32 hours) 1.9

Juniors (64 hours) 2.0

Seniors (96 hours) 2.0

Probationary students are closely monitore by the Admissions and Academic Standir Committee of the College. Students who are c academic probation may be restricted as courses taken, required to repeat courses

which low grades have been earned, lose Union College financial aid, or be suspended from the College.

A student admitted to the College on Academic Probation may have two semesters in which to meet the minimum academic standards. Failure to attain the required GPA at the end of these two semesters may result in suspension from the College. A letter of continued probation will be issued at the end of the first semester of the student's not meeting the minimum standards.

A student admitted to the College in good standing as a first-time freshman will receive notification of academic probation if the GPA is below the minimum required after the first semester. Notification of academic suspension may be sent to the student at the end of the second consecutive semester in which the cumulative GPA falls below the required minimum standard.

A student under academic suspension from Union College must sit out one semester before being considered for readmission. At the discretion of the Admissions and Academic Standing Committee, a student may be suspended for one full academic year. In order for a student to be readmitted to Union College, he/she must reapply through the Office of Admissions. Upon readmission, a student may be subject to restrictions as established by the Committee relative to number of hours allowed and the repeating of courses. Any student readmitted after suspension from Union may be placed on academic probation.

Academic Amnesty and Academic Failure

Academic amnesty may be granted for one term only. Students having received a grade point average (GPA) of less than 2.0 in a semester may apply in writing to the Registrar after having completed two consecutive full time semesters or twenty-four hours of part time work with a GPA of 2.0 or better. Twelve semester hours earned during the summer terms may be counted as one semester. Course titles and grades remain as previously recorded on the transcript and credit will be given for courses with grades of "C" or better. None of the grades in the semester for which academic amnesty is granted will be used in calculating the GPA. Transfer students bringing less than a 2.0 GPA or having received any form of academic amnesty at another institution do not quality for any amnesty option at Union. Students who receive amnesty will not be eligible for academic honors based on cumulative GPA.

Failure or quality point deficiencies in any course work done in residence cannot be removed by transfer credit, correspondence work or Independent Study.

Academic Honesty

Union College has a right to expect a high standard of academic integrity. Academic dishonesty such as plagiarism, collaboration, or cheating will not be tolerated. Examples of academic dishonesty may include:

1. Plagiarism - taking ideas, writings, etc., from another and presenting them as one's own.
2. Writing papers for other students.
3. Cheating (using illegal notes, copying, etc.) on examinations.
4. Unauthorized collaboration - unauthorized assistance with written or oral material.

Incidents of academic dishonesty will be dealt with by the individual professor, who may consult with the Department Head, Division Chair, or Vice President for Academic Affairs. Incidents of academic dishonesty will be reported in writing to the Office of Academic Affairs. Students have a right of appeal and are referred to the publication, **Union and You**, under the section "Academic Due Process".

The Instructor may impose one of the following penalties:

1. Administer another examination or outside assignment.
2. Assign a grade of "F" for the examination or outside assignment.
3. Assign a grade of "F" for the course, expelling the student from the course.

In severe or repeated incidences of academic dishonesty, the Vice President for Academic Affairs may suspend or expel a student from the college, after appropriate consultation.

Portfolio Development Program

The Portfolio Development Program is a program designed to accommodate non-traditional students who have not been to college before or

who dropped out of college in previous years and would like to return. It is structured to make it possible for these students to earn academic credit for prior learning that has come from life/work experiences. Students must register for the initial course, Portfolio Development, in order to learn how to develop a portfolio document. For further information, contact the Director of Portfolio Development or the Office of Admissions.

College-Level Examination Program (CLEP)

Union College is a regional testing center for the College-Level Examination Program (CLEP). The CLEP tests provide college credit for material students have mastered through self-study or non-accredited classes. As an Open Testing Center, Union College administers CLEP exams the second week of August, October, February and April. Students must register and pay at least three weeks in advance allowing the Testing Center time to order and receive the tests. The fee for the test is nonrefundable in the event the student decides not to take the exam.

By passing the CLEP examinations, degree-seeking students enrolled at Union College can earn up to 30 semester hours of credit toward a four-year program; 15 hours may be earned toward a two-year program. High school special students, and other special students, are not eligible. Credit may not be earned, through CLEP, for courses required for teacher certification by the Kentucky Department of Education. CLEP can not be utilized to make up a failed course.

Exams in the general battery must be taken before the student achieves sophomore status. Further information is available in the Office of Special Programs.

Credit By Examination

1. The student will apply for credit by examination at the office of the Registrar. An initial screening interview will be conducted and the division chairperson and appropriate faculty member will be consulted to determine if an evaluation seems feasible.
2. If an evaluation is feasible, the student will take a completed application form to the faculty member and arrange for an evaluation date. The faculty member will prepare an evaluation procedure, carry out the evaluation, and report the results to the Registrar.
3. Reported results will include a recommendation as to whether or not credit should be awarded and a description of the evaluation procedure and student performance. This material will be maintained on file in the Instructor's Office.
4. The recommendation and evaluation description will be forwarded to the division chairperson or a designated representative for review. If the division representative does not concur, the faculty member, designated representative (if there is one), and the division chairperson will meet with the Vice President for Academic Affairs to seek a resolution.
5. Successful completion of a challenge examination will be reported to the Registrar by the Instructor and will be recorded as "Credit" on the transcript. An unsuccessful challenge will not be recorded.
6. Students enrolled in a course may request a challenge examination only within the period when a new course may be added.
7. Challenge examinations may not be used for developmental courses, to repeat a course, or remove an "F" from the transcript.

Independent Study and Experiential Education

Union offers to qualified students the opportunity to work independently to earn credit for graduation. This option is reserved primarily for Junior and Senior students who have indicated the academic maturity to be able to accomplish the requirements of the course.

Registration for either of these options is during the designated time period for registration of other courses. Deadlines for adding courses should be adhered to for Independent Study and Experiential Education. Forms can be obtained from the Registrar's Office.

Failure or quality point deficiencies in any course work done at Union can not be removed by Independent Study.

Correspondence Courses

Any student planning to graduate from Union College must receive permission from the Registrar to register for correspondence courses.

Students applying for permission to earn correspondence credit must follow the same guidelines as stated for full-time students under "Course Load" on page 30. The stated number of hours will apply only for the semester or term in which the student registered.

Not more than six semester hours of correspondence work done in one academic year will be accepted by the College. Not more than six credit hours in a major may be completed by correspondence. Not more than sixteen semester hours of correspondence credit will be accepted toward a degree. Not more than six semester hours of correspondence may be accepted during the senior year.

Graduating seniors must complete any correspondence work needed for graduation at least four weeks before the date of Commencement. Failure or quality point deficiencies in any course done in residence cannot be removed by correspondence.

Transfer Credit for Union College Students

A student at Union College who wishes to take course work at another accredited college or university must obtain written permission from the Registrar **before** enrolling in the course. Union College students can not register for more than a total of seventeen semester hours per term, including all off campus courses, without the consent of the Vice President for Academic Affairs.

Failure or quality point deficiencies in any course work done at Union College can not be removed by transfer credit. Transfer work does not affect your Union College GPA.

Students who have earned as many as sixty-one semester hours at Union College may transfer a maximum of six semester hours during their final twenty-four hours of baccalaureate work. Students who have earned fewer than sixty hours credit at Union College may transfer a maximum of six semester hours to Union during their final thirty-eight hours.

Associate degree students who have earned a minimum of thirty-two semester hours credit at Union College may transfer a maximum of six semester hours to Union during their final eighteen semester hours.

Transfer credits will be considered based on the following policy statement.

1. Transfer credits from other institutions will be evaluated on how closely they match the intent of a particular section of the Union College Liberal Education Core. The initial review will be conducted by the Office of the Registrar based on generally accepted practices, and in consultation with the appropriate division chair when questions arise.

2. Students who are denied equivalency credit for a course in the Union College Liberal Education Core, or a course required in a major, area of concentration, or minor will have the right to petition for approval. The petition will be made to the Registrar who will consult with the appropriate division chair. Division chairs supervising divisions with a departmental structure are expected to consult with the appropriate department head before making a recommendation to the Registrar.

3. The student will have the right to appeal the decision to the Vice President for Academic Affairs in the event that the initial petition is denied. The decision of the Vice President for Academic Affairs shall be binding, and may be made on the basis as an exception to a general rule due to special circumstances, or may be issued as a precedent to guide future transfer credit evaluations.

Assessment Day Activities

Union College has developed a plan of action related to on-going assessment of our academic programs as well as other aspects of our college community. This is a continuous program throughout the school year but much of the data collection will center around an Assessment Day, identified in the school calendar, where students are expected to participate. Since an on-going evaluation of college programs is important to the quality of our offerings and because the Southern Association of Colleges and Schools requires some type of assessment program, this Assessment Day participation has been made a part of graduation requirements. Questions related to this program should be directed to the Director of Assessment or the Vice President for Academic Affairs.

Convocations

Union College provides a convocation program to gather its community together for reflection, for challenging faith and for promoting dialogue. This is in keeping with the Statement of Purpose of Union: "to stimulate intellectual curiosity and scholastic competence, to encourage Christian values, and to underscore the worth of education and the responsiblities of the individual."

The program includes a limited selection of required events and a flexible menu of events from which students can choose throughout the year including: college assemblies, lectures, theatre productions, worship services, fine arts concerts, and special gatherings.

Four convocations are required each semester. Full-time undergraduate students are expected to attend. Commuters with special circumstances, including day care or employment conflict, can be exempted. Illness or other bona fide excuses will be reviewed on an individual basis. Contact the program director if need arises.

Students will receive an attendance slip at each event to turn in at the conclusion of the program. A fine of $10 per missed event will be charged to the student's account. Students are not permitted to turn in attendance for other students; falsifying attendance will result in a $25 fine with convocation requirements still remaining in place.

Students are expected to be on time. No attendance slip will be issued after the first ten minutes, and no slips will be credited if turned in before the conclusion of a program. Clean, neat, and modest attire is the basic dress code. No cut-offs or caps are allowed. Nicer clothing (men—dress shirt and tie; women—dress, skirts, or dress slacks) is suggested at the Opening Convocation and Honors Day. Nicer clothing is also appropriate for evening recitals and concerts. The courtesy of your undivided attention to the artists, speakers, and performers is expected; they are our guests.

The director of the Convocaton Program is the Reverend Sara Webb Phillips. Her office is in the Religious Life Center with phone extension 1291.

Graduation Requirements

Application for graduation is to be made the semester before you plan to complete your requirements.

The candidates must satisfy the following r quirements:

1. Minimum of 128 semester hours, of whic at least twenty-five percent (thirty-two s mester hours) must be earned at Union Co lege. Thirty-two of the last thirty-eigl hours must be earned in residence at Unio College. Students who have earned a many as sixty-one semester hours at Unio College may graduate with eighteen of th last twenty-four hours earned in residenc At least thirty-nine semester hours must b in courses numbered 300 or above.

2. Quality point standing of 2.00 overall an at Union, and in all courses taken in th major or minor fields unless a specific d partment requires a higher GPA.

3. Completion of the Liberal Education Cor

4. For the Bachelor of Arts degree the equi alent of twelve semester hours of a singl language not native to the student is r quired. Equivalency shall be determined b the successful completion of the secon year of the language. Students with pric training in that language at the high-scho level may be eligible for advanced plac ment in the sequence of courses and me the requirement with fewer than twelv credit hours.

   Religion majors may substitute a year c Hebrew and a year of Greek for the lar guage requirement for the Bachelor of Ar degree.

5. For the Bachelor of Science degree the st dent must meet all graduation requir ments, including a major or area. A foreig language may or may not be required a determined by the individual discipline.

6. Completion of either:

   a. A major as determined by the faculty c the individual discipline.
      Majors are offered in: Accounting, Ath letic Training, Biology, Busines Administration, Business Educatior Chemistry, Christian Educatior Church Music, Computer Informatio Systems, Criminal Justice, Drama, Earl Elementary Education, English, Englis with Journalism Emphasis, History History and Political Science, Mathe matics, Middle Grades Education, Mu sic, Music and Business, Music Educa tion, Office Administration

Philosophy/Religion, Physical Education, Physics, Psychology, Religion, Science Education, Secondary Education, Sociology, Special Education, and Sports Management.
Minors are offered in: Accounting, Appalachian Studies, Biology, Business Administration, Chemistry, Computer Information Systems, Computer Science, Criminal Justice, Drama, Economics, English, Environmental Studies, Health Education, History, Journalism, Marketing, Mathematics, Music, Office Administration, Philosophy, Physics, Political Science, Psychology, Religion and Sociology.

b. An area, the structure of which is determined by the faculty of the Division in which the area requirements are met.
Areas are offered in: English, History and Political Science, Mathematics-Physical Science, Science and Social Studies.

7. At least thirty-nine semester hours offered for graduation must be earned in junior and senior courses (300 or above); at least six semester hours 300 and above, earned at Union, must be included in any minor; at least twelve semester hours 300 and above (evenly distributed in the two fields if this is a combined major), earned at Union, must be included in a thirty-hour major; at least eighteen semester hours 300 and above earned at Union must be included in an area or fifty-four hour major.

8. Participation in annual Assessment Day testing activities is required each year of all senior students. Those with special problems may contact the Director of Assessment for waiver.

9. Advice in arranging schedules and choosing courses is always given gladly; however, each student is responsible for completing all requirements.

Associate Degree — see specific program requirements

Combined Degrees

The bachelor degrees may be granted to students who have completed three years of work at Union College and one year of work in an accredited professional school with the following provisions:

1. The work in the professional school must continue the curriculum in which the student has been enrolled at Union College (pre-law, pre-dentistry, pre-medicine, etc.)

2. The student must have completed satisfactorily the minimum requirements for three years of pre-professional work at Union College (ninety-six semester hours with a quality-point standing of at least 2.00) and also the general college requirements for graduation, including the foreign language requirement if a B.A. is desired.

3. The student must have completed satisfactorily the minimum requirements for one year of study at the accredited professional school in which he is enrolled. The number of credits at the end of the four years of study must total at least 128 semester hours.

ACADEMIC RECORDS

Family Educational Rights and Privacy Act

The following policy is in accord with Kentucky Revised Statute 164.283, the Family Educational Rights and Privacy Act of 1974 (Public Law 93-380) as amended (Public Law 93-568), also known as the Buckley Amendment, and the regulations formulated by the U.S. Department of Education.

Union College provides eligible students or their parents, when applicable, with the opportunity to review the student's education records, to seek correction of information contained in these records, and to limit disclosure of information from the records.

Eligible students or their parents, when applicable, may file a complaint with the U.S. Department of Education if any of their rights under the Family Educational Rights and Privacy

Act of 1974 have been violated. Information concerning the rights enumerated in this act, as well as information concerning complaint procedures, is available in the Registrar's Office.

The College will release directory information to the general public in response to a legitimate request unless the student concerned files a written request with the Registrar that such information be withheld from the public. (Directory information is defined as student name, address, classification, telephone number, dates of attendance, date and place of birth, degree(s) earned, previous educational institutions attended, and honors and awards received.)

The Privacy Act also prohibits the distribution of grades to parents or guardians without a student's prior written consent, or a statement of dependency from parent or guardian when the student is a dependent as defined under the Internal Revenue Code.

Union College will, however, release records and accounts pertaining to veterans, as well as to other students, to appropriate U.S. government representatives. This exception to all other federal laws is found in Title 38 of the U.S. code, Section 1790(c).

Degrees with Distinction

Honors in Scholarship are recorded on the diplomas of the students earning them. There are three grades of honors designated respectively: *cum laude, magna cum laude,* and *summa cum laude.* These honors are conferred at gradu ation upon students who satisfy the followin conditions of scholarship:

The honor of *cum laude* is awarded to thos students who have earned an average standin of 3.5 overall and at Union.

The honor of *magna cum laude* is awarded t the students who have earned an average stand ing of 3.75 overall and at Union.

The honor of *summa cum laude* is awarded t those students who have earned an averag standing of 3.9 overall and at Union.

Students coming from other colleges may re ceive honors on completing 61 semester hours c resident study and satisfying the conditions c the scholarship prescribed by the faculty, prc vided they also furnish such evidence of hig scholarship in the institution from which the come as may, in the judgment of the faculty entitle them to become candidates for honor under the regulations.

As a reward for excellence in scholarship an to promote diligence in study and encourag high ideals, the honorary scholastic fraternity c Iota Sigma Nu was founded on May 26, 193 Membership is open upon election to:

(a) All who have met the requirements fc graduation with honors.

(b) All students who have at least 74 hour with a 3.2 quality point standing or 10 hours with a 3.0 quality point standing an who have completed a minimum of tw years (64 semester hours) in residence a Union College.

ACADEMIC SERVICES

Academic Advising Career Planning and Placement Services

Upon Admission to Union College, students will begin a process whereby career planners and faculty advisors assist them to articulate their career goals, to select academic courses of study appropriate to those goals, and to achieve suitable placement upon completion of their studies.

Academic Advising is considered to be one of the two most important tasks of the faculty—teaching being first. Each student will meet with an academic advisor on an individual basis i order to select courses for each semester. Th advisor is also available to help each studer learn how to use the resources at Union Colleg and to find solutions to problems which the stu dent might have.

Each student is assigned an academic advisc in his/her chosen field of study. Students wh have not made a vocational or profession choice will also be assigned an academic adviso Upon declaring a major, an advisor in that fiel will be assigned.

A Career Counselor is also available to assi students. Inventories, workshops, and indivic ual sessions are used to help students in ident fying areas of interest or study and work.

The Career Counselor also assists seniors in reparing a placement file and coordinates emloyment opportunities. This placement file is ent, at no cost, to prospective employers at the tudent's request.

Jndecided Majors

Students who have not made a vocational or rofessional choice will be assigned an advisor. Once a choice is made, the student will be reasigned to a faculty advisor in the appropriate iscipline.

Planned Curriculum

During the junior year, a curriculum plan will e done by the Registrar. This will indicate the ourses the student has already completed tovard the degree major on file in the Registrar's Office. This is an agreement between the College nd the student. Once the curriculum plan has een completed, only changes approved by the Registrar are binding on the College.

Academic Resource Center

The Academic Resource Center (ARC) proides free services to Union College students in everal academic support areas. Formerly nown as The Learning Lab, the name has been hanged to reflect the wide variety of services ow available. Tutoring is available in a variety f subject areas in both upper and lower division lasses. Students may work with a tutor to reiew for classes, refresh study skills, or prepare or professional examinations. Several academically challenging courses in the Union College urriculum offer Supplemental Instruction. Suplemental Instruction is a program provided by he ARC, which assigns one SI leader to each of hose designated courses. Students can attend roup study sessions that are held outside of the ormal class meetings and receive assistance rom the SI leader as well as from other students haring the same class experience. Students may lso work independently, using one of the many omputer programs or study books available. The ARC serves the needs of Union College stulents with day hours Monday - Friday and eveing hours Sunday - Thursday. Contact one of he trained tutors or the Assistant Director of Student Support Services in Centennial Hall, oom 105, for more information.

Supplemental Instruction

Union College provides a student academic assistance program known as Supplemental Instruction (SI) that has proven to increase student academic performance and retention.

Each semester courses that have been deemed academically challenging are selected for SI. Student leaders who have previously excelled in the designated courses are selected by the instructors of the courses to attend each class session, take notes and participate in class discussions, and hold three study sessions each week outside of class. SI is introduced to the students the first day of class, and the sessions are composed of students with varying academic abilities which provide a support system within the group. The concept of collaborative learning in a relaxed atmosphere helps students develop and integrate effective learning and study strategies while mastering course content.

Computer Facilities

The College has a variety of computers available for student and faculty use, including an HP-3000 minicomputer, an AT&T Unix-based microcomputer and numerous microcomputer systems. Five microcomputer laboratories on campus are used for instruction and are available for student and faculty use when not being used for classes. Three are located in Centennial Hall. In room 200, IBM-compatible 386 microcomputers are available for general use approximately sixty-eight hours each week, including late afternoons and evenings — Monday through Friday — and weekends. A novell networked system provides numerous opportunities for computer users. In room 209 the Ray C. Hensley Business Simulation Center is located. The center contains microcomputers, a scanner, a laser printer and telecommunication capabilities. The Teagle Writing Lab is located in room 107. The laboratory is equipped with 20 Macintosh microcomputers and a laser printer that are used for writing courses and student use.

The fourth microcomputer laboratory is located in the Mahlon A. Miller Science Center and contains Apple IIe's and a terminal to the AT&T system.

The Behavioral Science Computer Center is the fifth and newest lab to be installed at Union College. It contains seventeen 486 workstations linked to a pentium chip server, high speed laser

printer, a computer display projection unit, and a multi-color plotter.

The Computer Information Systems Program also operates the AT&T system. CIS majors have the opportunity to gain hands-on experience in the operation of this system. Additional microcomputers are available for use in other areas. A Macintosh and an Apple IIGS are used in the Learning Lab for tutoring and remedial instruction. An Apple IIGS is used by the Music Department in the teaching of its classes, and Apple IIe and an IBM PC are available for use in the various science laboratories.

Most administrative offices use microcomputers connected to the College's administrative minicomputer to assist them in their duties.

Developmental Studies

The Developmental Studies Program is designed to help students become more successful in their college studies. Through this program Union College has recognized that each entering student has different strengths and weaknesses. Some of the common weaknesses are in reading, writing, and math skills.

The College has developed mandatory courses for students who score

1. below 15 on the English section of the ACT or 430 on the verbal section of the SAT
2. below 9 on the Elementary Algebra subsection of the ACT or 400 on the quantitative section of the SAT
3. below 15 on the Reading section of the ACT or 430 on the verbal section of the SAT

Students who are not required to take the developmental courses listed below may elect to take one or more of them after consultation with their academic advisor.

The mandatory courses include the following three courses, each carrying 3 semester hours of credit:

1. **English 110, Developmental English** — is designed to provide development of college-level language skills and to prepare students for English 111.
2. **Mathematics 101, Pre-college Algebra** — is intended for students who need to improve their arithmetic and elementary algebra skills prior to taking other college mathematics courses or courses requiring quantitative reasoning.
3. **General Studies 101, College Reading** - is designed to help students increase the reading level to more effectively handle th reading requirement in college texts.

Community Education

Community Education at Union College pr vides courses, workshops, seminars, and lif long learning experiences that satisfy a wid range of educational needs for adults. Throug partnerships with community agencies, school business and industry, Union is able to emph size the importance of lifelong learning whil meeting specific needs of different segments the community. Adults study for personal e richment, to acquire new skills for career a vancement, or to enjoy cultural or leisure acti ities. The close student-to-instructor rapport th characterizes Union College adds an exciting d mension to these learning experiences. Studen may earn continuing education units for selecte short courses and college credit for telecours available through Kentucky Educational Tel vision. The Community Education componen addresses the process of lifelong learning an includes specific requested classes and the El erhostel program.

Library and Learning Resource Center

The Weeks-Townsend Memorial Library pr vides a variety of resources and services to su port and enrich the College's academic pr grams. The library, located in the center campus, houses a collection of more than 100,00 books, periodicals, government documents, a dio-visual materials, and computer database Library functions, including public catalog a cess, circulation, acquisitions, and serials co trol, are fully automated through the Sirsi Un corn Collection Management System. Eig public catalog workstations are positione throughout the library, and dial-in access available for patrons with modem-equipp personal computers. The library can accomm date over 300 persons in a variety of seating a rangements, including study carrels, table group settings and an audio-visual classroom.

The Learning Resource Center is house within the Library and includes non-print medi and audio-visual equipment. The equipment i cludes a satellite dish providing access to C-ban

nd Ku-band satellite transmissions and a video diting system. The LRC provides educational edia materials for classroom use and indivi-ualized study. The library staff offers individ-al and group instruction in the use of equip-ent and materials.

The Library contains several special collec-ons. The most recently added collection is the umberland Gap Genealogy Collection, consist-g of local genealogy and history information. dditional collections include the Lincoln-Civil War Collection, the Curriculum Collection, the Music Library and the Science Reading Room. The library also serves as the repository for the College Archives.

The Weeks-Townsend Memorial Library participates in state, regional, and national networks, including the Kentucky Library Network and Southeastern Library Network. The library staff is dedicated to providing members of the Union College community the information resources needed to meet their educational goals.

CURRICULUM

MAJORS AND DEGREE PROGRAMS

A college major is actually a means to an end — the means by which a student prepares for a futu career, entrance into graduate school, or some change in life style. Union College offers a wide range majors and minors, as part of the Bachelor's degree and a number of certificate and 2-year Associa degree programs for those not needing a full 4-year degree.

Degree Area	Major	Minor	Associate Degree	Area of Concentration	Program
APPLIED SCIENCE DIVISION					
Department of Business					
Accounting	X	X	X		
Business Administration	X	X	X		
Business Education	X				
Business and Music	X				
Computer Information Systems	X	X	X		
Economics		X			
Marketing		X			
Office Administration	X	X	X		
Department of Education					
Early Elementary Education	X		X		
Middle Grades Education	X				
Secondary Education	X				
Special Education	X				
Department of Health and Physical Education					
Athletic Training	X				
Health Education		X			
Physical Education	X				
Sports Management	X				
HUMANITIES DIVISION					
Department of English, Journalism, and Foreign Languages					
English	X	X		X	
English with a Journalism Emphasis	X	X		X	
Journalism		X		X	X
Department of Music and Fine Arts					
Church Music	X				
Drama	X	X			
Music	X	X			
Music and Business	X				
Music Education	X				
Department of Religion and Philosophy					
Christian Education	X				
Philosophy		X			
Philosophy/Religion	X				
Religion	X	X			

Degree Area	Major	Minor	Associate Degree	Area of Concentration	Program
ATURAL SCIENCE DIVISION					
Biology	X	X			
Chemistry	X	X			
Computer Science		X			
Environmental Studies		X			
Mathematics	X	X			
Physics	X	X			
Pre-Dentistry					X
Pre-Engineering					X
Pre-Medical Technology					X
Pre-Medicine					X
Pre-Optometry					X
Pre-Pharmacy					X
Pre-Physical Therapy					X
Pre-Veterinary Medicine					X
Science Education	X				
Mathematics-Physical Science				X	
Science				X	
OCIAL SCIENCE DIVISION					
Appalachian Semester					X
Appalachian Studies		X			
Criminal Justice	X	X	X		
History	X	X			
History and Political Science	X				
Political Science		X			
Pre-Law					X
Psychology	X	X			
Social Studies				X	
Sociology	X	X			

GRADUATE, COOPERATIVE, AND INTERDISCIPLINARY PROGRAMS

Graduate Program in Education

Union College offers a unique graduate program designed for in-service teachers in the public schools. The College grants the 5th year certificate for Kentucky teachers and the M.A. degree in Education in the following areas: reading specialist, elementary education, middle school education, and secondary education with emphasis in either physical education/health, history, science, social science, psychology, sociology, or English.

Work beyond the Masters level leading to certification as an elementary or secondary school principal, supervisor of instruction, as well as Rank I (30 hours beyond M.A.) is available. Many courses are offered off-campus.

Qualified holders of the Bachelor's degree should contact the Dean of Graduate Academic Affairs for brochures, catalogs, and information about the graduate program.

Veterans Administration Educational Assistance

Union College is approved by the Kentucky Approving Agency for Veterans Education for the education of veterans and their dependents. To receive benefits more quickly, prospective students should present a copy of their certificate of eligibility to the Registrar's Office prior to their registration for classes.

Concurrent Admissions Program (ConAP)

ConAP is a joint program of the Army and Servicemembers Opportunity Colleges to admit new soldiers into a college or university at the same time as they enlist in the Army.

Eligible soldiers are admitted, either on a full or provisional basis, with enrollment deferred until completion of active military service. Provisional admission means that the student may be required to take a reduced course load, to enroll in foundation courses, or to undergo other academic preparation. The student is subject to the college's requirements, as published in this catalog, at the time of enrollment in classes. The admission agreement is in effect for two year following completion of active military service

Pre-Professional Programs

Union College offers several pre-professiona programs that are affiliated with other institu tions and agencies. These include Dentistry, En gineering, Medical Technology, Medicine, Op tometry, Pharmacy, Physical Therapy, an Veterinary Medicine. College personnel ar available in the Natural Science Division to ad vise and counsel students who are interested i these programs. More specific information ca be obtained in the Natural Science Division sec tion of this catalog.

Kentucky Institute for International Studies (KIIS)

Union College is a co-operating member of th Kentucky Institute for International Studie (KIIS). The college joins with other Kentucky col leges and universities to provide summer stud opportunities in ten different locations. The pro grams in France, Spain, Mexico, Germany, Aus tria, Italy, and Ecuador are open to all Unio College students and provide courses whic contribute to all of our educational programs.

Appalachian Studies

Reflecting the College's primary mission o improving the quality of life of the Appalachia people, Union offers a multi-faceted Appala chian Studies Program. One or more compo nents of the program should be of interest to al students. The program seeks to develop an ap preciation of the people, culture, and socio-eco nomic conditions of the mountain area; to pro vide opportunities for direct service, researc and personal experience in the region; to provid the skills and critical understanding needed t work in this area; and to help the students de velop an understanding of themselves and oth ers.

The program at present consists of an Appa lachian Studies minor, the Appalachian Semes ter outlined in detail below, and of various aca demic courses, identified in appropriat

epartmental and division course listings. The tudent will find an interdisciplinary approach o the history, politics, music, natural resources, conomics, and other aspects of the region, vhich will stand them in good stead no matter vhere they may live later.

Appalachian Semester

The Appalachian Semester is a unique interlisciplinary academic program in which sophmore, junior, and senior students from Union College and other institutions throughout the United States devote one full semester to studyng the Appalachian region—its strengths, probems and challenges. Students earn a total of fifeen semester hours of academic credit, nine of vhich are for classroom work with the remaining six in field work in a variety of disciplines. Field work may be either experiential learning conducted in a local service agency or other institutional settings, or it may be directed study in a particular subject. Possible directed study subjects are oral histories, politics, religion, folklore, and environmental issues. The program is designed to combine classroom learning with first-hand knowledge gained through research or a practicum setting. As such, the purpose of the Semester is to promote a critical understanding of a distinct aspect of American society from an interdisciplinary approach.

Opportunities are provided to discuss regional issues with local scholars, politicians, and writers. Field trips are coordinated with seminar discussions in order to introduce participants with the unique components of Appalachian culture.

Course descriptions are included in the curriculum section of this catalog. The Appalachian Semester is offered every fall semester. Detailed information and application forms are available from the Director, Appalachian Semester, Union College.

THE LIBERAL EDUCATION CORE

I. BASIC SKILLS — 12 or 15 hour

A. FRESHMAN COMPOSITION — 6 or 3 hour

ENGL 111-112 Freshman Composition I and II

OR

ENGL 113 Honors Composition and Literature

B. MATHEMATICS — 3-4 hour

BHSC 245 Basic Statistics: Theory and Application
MATH 110 Applications of Mathematics for College Students
MATH 131 College Algebra
MATH 133 Trigonometry and Analytic Geometry
MATH 203 Mathematics for Elementary Teachers (K-4 majors only)
MATH 241 Introduction to Calculus and Analytic Geometry

C. PHYSICAL WELL BEING — 3 hour

HLTH 131 First Aid and Safety Education
HLTH 270 Personal and Community Health

OR

Three Physical Education Activity Courses

D. ORAL COMMUNICATIONS — 3 hour

JOUR 152 Introduction to Communications
SPCH 131 Introduction to Public Speaking

II. CULTURES AND CIVILIZATIONS — 18-19 hour

A. LITERATURE — 3 hour

ENGL 211 World Literature in Translation
ENGL 213 Honors Western Literature
ENGL 221 Survey of English Literature I
ENGL 222 Survey of English Literature II
ENGL 231 Survey of American Literature I
ENGL 232 Survey of American Literature II

B. FINE ARTS — 3-4 hour

ART 132 Introduction to Art
ART 273 Art History
DRAM 131 Introduction to the Theatre
MUSC 121 Introduction to Music
MUSC 161 Foundations of Music I
MUSC 162 Foundations of Music II

C. RELIGION AND PHILOSOPHY — 3 hour

PHIL 151 Introduction to Philosophy: Knowledge and Reality
PHIL 152 Introduction to Philosophy: Ethics and Society
RLGN 111 Old Testament History, Literature, and Interpretation
RLGN 112 New Testament History, Literature, and Interpretation
RLGN 131 World Religions
RLGN 252 Religious Foundations of Western Civilization

D. FOREIGN LANGUAGE, LITERATURE, FINE ARTS, RELIGION, OR PHILOSOPHY — 3 hour

Select one course from the following:
FREN 111 or 112 Elementary French
GRMN 111 or 112 Elementary German
SPAN 111 or 112 Elementary Spanish

OR

Select one listed course not already used to satisfy Sections II. A, B, or C.

E. HISTORY 6 hours
Western Civilization 3 hours
HIST 131 Western Civilization to 1715 3
HIST 132 Western Civilization since 1715 3
History Elective 3 hours
An additional course from above or one of:
HIST 201 United States History to 1865 3
HIST 202 United States History since 1865 3

III. FOUNDATIONS OF NATURAL SCIENCE 7-9 hours

Select two courses. The courses must be in different departments and one must include a lab. Education majors must have a biological science and a physical science, one of which must include a lab. K-4 majors must have a lab in both courses. Environmental Studies 101 will not apply toward teacher certification.

BIOL 109 and 110 Elements of Biology 4
BIOL 111 General Biology (includes lab) 4
CHEM 101 Introductory General Chemistry (includes lab) 4
CHEM 111 and 131 General Chemistry 4
ENVS 101 Man and the Environment 3
ENVS 110 Physical Systems of the Environment (includes lab) 4
GNSC 101 Physical Science (includes lab) 4
PHYS 111 and 113 Elements of General Physics 4
PHYS 211 and 213 General Physics 5

IV. SOCIAL SCIENCES AND THE MODERN WORLD 6 hours

Social Sciences Foundation Course ..... 3 hours
ECON 203 Principles of Macroeconomics
ECON 204 Principles of Microeconomics
GEOG 101 Introduction to Geography
PLSC 101 American National Government
PSYH 111 Introduction to Psychology
SOCI 131 Introduction to Sociology
Social Sciences Application Course ..... 3 hours
ANTH 251 North American Indian Cultures
ECON 251 Environmental Economics
PLSC 231 International Politics
PSYH 201 Psychology of Personal Adjustment
PSYH 210 Child Development
SOCI 241 Sociology of Appalachia
SOCI 251 Current Socio-Economic Problems
SOCI 271 Marriage and the Family

Students must complete departmental requirements which will assure appropriate proficiency in computer skills. (This requirement will be put into place in 1996-97, allowing for the appropriate amount of time to establish the system.)

ACADEMIC DIVISIONS

DIVISION OF APPLIED SCIENCES

Larry Inkster, *Chairperson*
Department of Business Department of Education
Department of Health & Physical Education

I. DEPARTMENT OF BUSINESS

John W. Webster, *Department Head*
Accounting — Business Administration — Business Education
Computer Information Systems — Economics — Marketing — Office Administration

BACHELOR OF SCIENCE DEGREES IN BUSINESS

In addition to the general college requirements, all candidates for the Bachelor's degree must complete the following courses in one of the major fields listed below. Students with a major or minor in Business must have a 2.0 average for all courses in each major or minor. (Students who choose to complete the foreign language requirement may elect to receive a Bachelor of Arts degree.)

Common Courses Required of All Candidates		*Semester Hours*
ACTG 271, 272	Principles of Accounting I & II	6
BUAD 310	The Legal Environment of Business	3
BUAD 351	Principles of Finance	3
BUAD 352	Principles of Management	3
COMP 211	Introduction to Business Information Systems	3
ECON 203	Principles of Macroeconomics	3
ECON 204	Principles of Microeconomics	3
MKTG 321	Principles of Marketing	3
		27

and, as applicable:

Accounting Major		*Semester Hours*
ACTG 331	Cost Accounting	3
ACTG 371, 372	Intermediate Accounting I & II	6
ACTG 376	Tax Accounting	3
ACTG 431	Accounting Information Systems	3
ACTG 433	Auditing	3
ACTG 471, 472	Advanced Accounting I & II	6
COMP 241	Advanced Microcomputer Applications in Business	3
OFAD 302	Business Communications	3
	Accounting Electives (300 level or above)	3
		33

Business Administration Major		*Semester Hours*
BHSC 245	Basic Statistics: Theory and Application	3
BUAD 361	Corporate Financial Analysis	3
BUAD 372	Personnel Management	3
BUAD 451	Business Policy	3
COMP 241	Advanced Microcomputer Applications in Business	3
OFAD 302	Business Communications	3
	Electives from the Department of Business (200 level and above)	12
		30

Computer Information Systems Major		Semester Hours
*BHSC 245 or	Basic Statistics: Theory and Application	3
*MATH 110	Applications of Mathematics for College Students	3
*MATH 131	College Algebra	3
*BHSC 245 if not used to satisfy Liberal Education Core, otherwise MATH 110 or 131.		
COMP 221, 222	Business Application Programming I and II	6
COMP 331 or	Structured System Analysis and Design	3
COMP 332	Object Oriented Analysis and Design	3
COMP 441	Databases	3
COMP 455	Applied Software Development Project	3
COMP 251 or	C Programming	3
COMP 241	Advanced Microcomputer Applications in Business	
	Computer Elective (300 or 400 level)	6
OFAD 302	Business Communications	3
		30

Office Administration Major		Semester Hours
BUAD 372	Personnel Management	3
COMP 241	Advanced Microcomputer Applications in Business	3
OFAD 222	Intermediate Keyboarding Applications	3
OFAD 262	Word Processing	3
OFAD 301	Business English: Theory and Applications	3
OFAD 302	Business Communications	3
OFAD 431	Office Systems	4
	Elective from the Department of Business (200 level or above)	3
	Elective from the Department of Business (300 level or above)	3
		28

Business and Music Major		Semester Hours
MKTG 272	Personal Selling	3
MUSC 161, 162	Foundations of Music	8
MUSC 261, 262	Harmony	6
MUSC 101-202	Applied Music	4
MUSC 322	Music History	3
MUSC 171, 172, 173, 175, 176	String, Woodwind, Piano, Brass and Percussion Classes (Choice of any 3)	3
OFAD 302	Business Communications	3
	Elective from the Department of Business (300 level or above)	3
	Field Placement	3-10
		40-47

BACHELOR OF SCIENCE DEGREE IN BUSINESS EDUCATION

Students should see the Education Department section for Certification Requirements.

The Comprehensive Business major will certify teachers to teach business courses in grades 5 through 12.

Teaching Major in Comprehensive Business		Semester Hours
ACTG 271, 272	Principles of Accounting I & II	6
BUAD 151	Introduction to Business	3
BUAD 310	The Legal Environment of Business	3
BUAD 352	Principles of Management	3
BUED 462	Methods of Teaching Comprehensive Business Subjects	4
COMP 211	Introduction to Business Information Systems	3
COMP 241	Advanced Microcomputer Applications in Business	3
ECON 203 or	Principles of Macroeconomics	3
ECON 204	Principles of Microeconomics	
EDUC 370	Curriculum Development for the Middle Grades	3
OFAD 222	Intermediate Keyboarding Applications	3
OFAD 262	Word Processing	3
OFAD 302	Business Communications	3
OFAD 431	Office Systems	4
		44

ENDORSEMENT FOR ADVANCED DATA PROCESSING

Students must complete all requirements for a major in Comprehensive Business and a total of nine semester hours of 200 level or above computer information systems courses, including at least three hours in a programming language.

ENDORSEMENT FOR SHORTHAND

Students must complete all requirements for a major in Comprehensive Business and six semester hours in shorthand.

ASSOCIATE OF APPLIED SCIENCE DEGREES IN BUSINESS

The following two-year programs lead to the award of the A.A.S. degrees in the emphasis indicated

Common Courses Required of All Candidates		*Semester Hours*
ACTG 271	Principles of Accounting I	3
BUED 105	Mathematics Applied to Business	2
COMP 141	Introduction to Microcomputers and Applications	3
COMP 211	Introduction to Business Information Systems	3
ECON 203	Principles of Macroeconomics	3
ENGL 111	Freshman Composition I	3
ENGL 112	Freshman Composition II	3
OFAD 302	Business Communications	3
	Humanities General Requirement	3
	Natural Science General Requirement	3
	Social Science General Requirement	3
		33

and, as applicable:

Accounting Emphasis (AAS)		*Semester Hours*
ACTG 272	Principles of Accounting II	3
BUAD 310	The Legal Environment of Business	3
COMP 241	Advanced Microcomputer Applications in Business	3
ECON 204	Principles of Microeconomics	3
	Accounting Electives (300 level or above)	12
	Non-Business Electives	6
		30

Business Administration Emphasis (AAS)		*Semester Hours*
ACTG 272	Principles of Accounting II	3
BUAD 310	The Legal Environment of Business	3
BUAD 352	Principles of Management	3
COMP 241	Advanced Microcomputer Applications in Business	3
ECON 204	Principles of Microeconomics	3
	Electives from the Department of Business (200 level or above)	3
	Non-Business Electives	6
		30

Computer Information Systems Emphasis (AAS)		*Semester Hours*
ACTG 272	Principles of Accounting II	3
BHSC 245	Basic Statistics: Theory and Application	3
COMP 221, 222	Business Application Programming I and II	3
COMP 241	Advanced Microcomputer Applications in Business	3
COMP 331	Structured System Analysis and Design	3
ECON 204	Principles of Microeconomics	3
MATH 110, 131 or 241	Mathematics Course	3 or 4
	Computer Elective (300 or 400 level)	3
	Non-Business Electives	6
		33-34

Office Administration Emphasis (AAS)		Semester Hours
ACTG 272	Principles of Accounting II	3
BUAD 352	Principles of Management	3
COMP 241	Advanced Microcomputer Applications in Business	3
OFAD 222	Intermediate Keyboarding Applications	6
OFAD 262	Word Processing	3
OFAD 301	Business English: Theory and Applications	3
OFAD 431	Office Systems	4
	Non-Business Electives	6
		28

MINORS AVAILABLE TO ALL STUDENTS

Accounting — Twenty-one semester hours in Accounting at 200 level and above.

Business Administration — Twenty-one semester hours consisting of the following: Accounting 271-272, Business Administration 310 and 352, Computer Information Systems 211, Economics 203, and three hours of Business electives (200 level or above).

Computer Information Systems — Twenty-one semester hours consisting of the following: Computer Information Systems 211, 221, 241, 331 and at least nine additional hours in Computer Information Systems courses numbered 200 or above (at least three of these hours must be numbered 300 or above).

Economics — Twenty-one semester hours consisting of the following: Economics 203, 204, Behavioral Sciences 245 or Mathematics 372, Computer Information Systems 141 or 241 or Mathematics 241, and three courses from the following list, only one of which may be below 300 level: Economics 252, 354, 363, 488, or History 241.

Marketing — Twenty-one semester hours consisting of the following: Marketing 272, 321, 370, and 421, Computer Information Systems 241, and Economics 203 and 204.

Office Administration — Twenty-two semester hours including Office Administration 222, 262, 301, 431, Business Administration 352, and at least six additional hours in Office Administration courses numbered 200 or above.

ACCOUNTING

Accounting 170. The Accounting Cycle. **(S)(3)**
This course is designed for students who have not studied accounting in high school or who need basic studies in accounting. Subjects covered include journalizing, posting, worksheets, adjusting and closing entries. No prerequisites.

Accounting 271. Principles of Accounting I. **(F)(3)**
Discussion of the concept of double-entry accounting. Introduction to the basic procedures in the accounting cycle, receivables, payables, inventories and other systems.

Accounting 272. Principles of Accounting II. **(S)(3)**
A continuation of Accounting 271, this course covers accounting procedures relative to partnerships, corporations, budgets, costing and financial report generation. *Prerequisite:* Accounting 271.

Accounting 331. Cost Accounting. **(F)(3)**
Special topics in job order and process cost for materials, labor, and overhead with variable and fixed portions. Budgeting and variances from budget are also covered. *Prerequisite:* Accounting 272.

Accounting 371. Intermediate Accounting I. **(F)(3)**
Accounting topics include the income statement, balance sheet and change in owners' equity statements. Cash, receivables, inventories, plant, investments and intangible assets are also covered. *Prerequisite:* Accounting 272.

Accounting 372. Intermediate Accounting II. **(S)(3)**
Continuation of Accounting 371 covering current liabilities, contingent liabilities, long-term liabilities, accounting for income taxes, and owners' equity. Statement of Change in Financial Position, financial statement analysis and the impact of changing prices are also covered. *Prerequisite:* Accounting 371.

Accounting 376. Tax Accounting. **(S)(3)**
Problems of federal taxes for individuals, partnerships, and corporations are reviewed in depth. *Prerequisite:* Accounting 272.

Accounting 430. Accounting Theory. **(F)(3)**
Covers current accounting literature, including publications of the American Institute of Certified Public Accountants (AICPA), the Financial Accounting Standards Board (FASB), and the Securities and Exchange Commission (SEC). *Prerequisite:* Accounting 372.

Accounting 431. Accounting Information Systems. **(F)(3)**
This course studies the principles and problems of accounting system design and installation, organization for accounting control, internal control procedures, and internal reports. *Prerequisites:* Accounting 331 and 372.

Accounting 433. Auditing. **(S)(3)**
Topics covered include discussion of the ethics and liability of the auditor, verification, analysis, interpretation of accounting records, issuance of audit reports and other reports by CPA's. *Prerequisite:* Accounting 372.

Accounting 471. Advanced Accounting I. **(F)(3)**
Advanced in-depth discussion of accounting for joint ventures, consolidated statements, inter-company transactions. *Prerequisite:* Accounting 372.

Accounting 472. Advanced Accounting II. **(S)(3)**
Covers multi-national accounting, interim and segmental reporting, governmental and not-for-profit accounting, and insolvency. *Prerequisite:* Accounting 372.

Accounting 488. Business Seminar. **(on demand)(3)**
An advanced course of selected topics of interest in the field of Accounting. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses or permission of the instructor.

BUSINESS ADMINISTRATION

Business Administration 151. Introduction to Business. **(F)(3)**
Forms of business ownership, marketing, personnel management, finance, and government regulations are discussed in an overview of organizations.

Business Administration 310. The Legal Environment of Business. **(F,S)(3)**
An overview of traditional legal environment topics such as judicial reasoning, administrative law, anti-trust law, contracts, torts, agencies, bailment, real and personal property, leases, and bankruptcy.

Business Administration 351. Principles of Finance. **(F)(3)**
The principal objective of this course is to introduce managerial finance as a functional area of business, including financial analysis, working capital practices, capital budgeting, corporate valuation, cost of capital and capital structure. *Prerequisite:* Accounting 272.

Business Administration 352. Principles of Management. **(F)(3)**
This course introduces students to the development of organization plans and policies, as well as providing an exposure to basic theoretical developments in management thought over the last one hundred years. Particular attention will be given to the topics of organizational design, control, quantitative techniques of management operations and theories of leadership.

Business Administration 361. Corporate Financial Analysis. **(S)(3)**
An advanced financial case analysis course which will examine complex financial models and scenarios. This course will draw heavily upon the many financial concepts and theories covered in Business Administration 351, Principles of Finance. Topics will include: financial planning, networking capital financing, merger and acquisitions, and international managerial financial analysis. *Prerequisites:* Business Administration 351.

Business Administration 372. Personnel Management. **(S)(3)**
Using a system-process model, this course discusses the various subsystems (recruitment, selection, compensation, task specification, etc.) which fall under the responsibility of the personnel management function. The subsystems are designed to provide for the efficient and effective utilization of human resources in business concerns. *Prerequisite:* Business Administration 352.

Business Administration 402. Business Protocol. **(S)(3)**
A study of domestic and international protocol procedures for conducting business in a global society. The course will examine customs, courtesies, lifestyle, the people, and a nation's history and government. *Prerequisites:*Business Administration 352 and 372, Marketing 321, and Office Administration 302.

Business Administration 440. Business Ethics. **(F)(3)**
Sensitizes students to the ethical implications of business activity and provides a theoretical framework within which responsible decisions can be made. The course relates the ethical considerations and legal principles to the corporations's responsibility to society. (May be used as an Accounting elective.)

Business Administration 451. Business Policy. **(S)(3)**
This course serves as a "capstone course" which attempts to bring together knowledge acquired in all of the functional areas of business (management, marketing, finance, accounting, etc.) in a case analysis situation. A strategic decision-making model will be presented as the basis for the alternative courses of action, and the implementation of the strategy chosen. *Prerequisites:* Senior status in the Business Administration program and the successful completion of Accounting 272, Business Administration 351, 352, and 372, and Marketing 321.

Business Administration 488. Business Seminar. **(on demand)(3)**
An advanced course of selected topics of interest in the field of Business Administration. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses.

BUSINESS EDUCATION

Business Education 105. Mathematics Applied to Business. **(F)(2)**
The application of basic mathematics to business operations including: Markups, markdowns, interest and discounts, bank reconciliation and graphing.

Business Education 462. Methods of Teaching Comprehensive Business Subjects. **(F)(4)**
A study of the methods, materials, and objectives in teaching comprehensive business subjects in the middle and secondary school. Discussion includes teaching strategies such as questioning, lecturing, problem-solving, constructing lesson objectives, constructing valid and reliable tests, interpreting test scores, and presenting lectures on video tape. *Prerequisites:* Admission to Teacher Education Program and Junior standing. Students must have at least twelve hours from the Union College Department of Business. Transfer students must have permission of the instructor to take this course.

Business Education 488. Business Seminar. **(on demand)(3)**
An advanced course of selected topics of interest in the field of Business Education. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses or permission of the instructor.

COMPUTER INFORMATION SYSTEMS

Computer Information Systems 121. BASIC Programming. **(F)(3)**
A study of the BASIC programming language including problem definition, flowcharting, and solving problems that are adaptable to business and/or science applications. Laboratory work designed to illustrate the basic principles of structured programming in BASIC will provide hands-on experience on microcomputers. *Prerequisites:* Business Education 105 or any Mathematics course numbered 110 or above.

Computer Information Systems 141. Introduction to Microcomputers and Applications. **(F,S)(3)**
A preliminary examination and evaluation of microcomputers and major applications, including the disk operating system, word processing, electronic spreadsheets, and database management.

Computer Information Systems 211. Introduction to Business Information Systems. **(F,S)(3)**
An introduction to information systems from a business perspective. Emphasis is placed on problem-solving skills, group dynamics, critical thinking, and the technological tools available to help solve today's business problems. The students will follow the information system development process through conception, design, and implementation. *Prerequisites:* Successful completion of Computer Information Systems 141 with a grade of "C" or better.

Computer Information Systems 221. Business Application Programming I. **(F)(3)**
A study of the fundamental principles of algorithm development and structured computer programming used in solving business information systems problems, including an introduction to design and implementation documentation used by industry. Major topics include control structures, elementary data structures, program design techniques, and sequential files. A subset of COBOL is used as the programming language. *Prerequisites:* Computer Information Systems 211 and one of the following: Mathematics 110 or 131 or Accounting 271.

Computer Information Systems 222. Business Application Programming II. **(S)(3)**
A continuation of Business Application Programming I. A study of systems of programs and the techniques for their design and development. Major topics include modular design of algorithms, uses of bulk storage devices, random files, master-file maintenance systems, advanced report writing and business algorithms, dynamic data structures, and subprograms. *Prerequisite:* Computer Information Systems 221.

Computer Information Systems 241. Advanced Microcomputer Applications in Business. **(F,S)(3)**
An advanced examination of applications available for microcomputers. Topics include the disk operating system, word processing, electronic spreadsheets, database management, graphics, electronic accounting, electronic presentations applications, and other applications, which will change as demands warrant. An assessment of the information needs of today's business executive and the role these applications play in meeting those information needs will be examined. *Prerequisite:* Successful completion of Computer Information Systems 141 with a grade of "C" or better. *Pre- or co-requisite:* Accounting 271.

Computer Information Systems 250. Scientific Programming. **(F)(3)**
A study of the fundamental principals of algorithm development and structured programming used to solve problems from the areas of mathematics, the physical sciences, and engineering, including an introduction to design and implementation documentation. Major topics are debugging, control structures, and elementary data structures. *Prerequisites:* Any programming language or Mathematics 241.

Computer Information Systems 251. C Programming. **(S)(3)**
A study of C programming language including problem definition, flowcharting, and the solution of problems that are adaptable to business applications. *Prerequisites:* Computer Information Systems 211 and one of the following: Mathematics 110 or 131 or Accounting 271.

Computer Information Systems 310. Introduction to Computer Architecture. **(S)(3)**
A study of the fundamental concepts and terminology of computer architecture (including assembly languages) with emphasis on the relationships among hardware, architecture, systems software, and applications software. *Prerequisite:* Computer Information Systems 221 or 250. (Even years only.)

Computer Information Systems 315. Operating Systems. **(S)(3)**
Survey of the major components of operating systems, comparing and contrasting various systems including batch, time sharing, and microcomputer systems. *Prerequisite:* Computer Information Systems 221 or 250. (Odd years only.)

Computer Information Systems 331. Structured System Analysis and Design. **(F)(3)**
A study of the system development life cycle emphasizing documentation and communication aids, interpersonal approaches and techniques used in the analysis and design of new systems for a given problem. Students are expected to be familiar with basic writing skills and application packages. *Prerequisites:* (Computer Information Systems 221 and Accounting 271) or (Computer Information Systems 250 and Chemistry 131 or Physics 213).

Computer Information Systems 332. Object Oriented Analysis and Design. **(F)(3)**
A study of the object-oriented approach to system development emphasizing documentation and communication aid, interpersonal approaches and techniques used in the analysis and design of new systems for a given problem. Students are expected to be familiar with basic writing skills and application packages. *Prerequisites:* (Computer Information Systems 221 and Accounting 271) or (Computer Information Systems 250 and Chemistry 131 or Physics 213). (Odd years only.)

Computer Information Systems 421. Software Engineering. **(S)(3)**
A study of the management and technical tools, procedures, and concepts used in creating software systems for specific application. Students will design and implement a software system. *Prerequisites:* Computer Information Systems 331 or 332. (Even years only.)

Computer Information Systems 441. Databases. **(S)(3)**
A study of software design in a data base environment, of data base systems, and of data base programming. A variety of hierarchical, network and relational data bases are studied. *Prerequisite:* Computer Information Systems 332. (Odd years only.)

Computer Information Systems 455. Applied Software Development Project. **(S)(3)**
A study of application system development and project management. Students will design and implement a comprehensive system to solve a complex case study. *Prerequisites:* Computer Information Systems 331 or 332.

Computer Information Systems 488. Business Seminar. **(on demand)(3)**
An advanced course of selected topics of interest in the field of Computer Information Systems. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses or permission of the instructor.

ECONOMICS

Economics 203. Principles of Macroeconomics. **(F)(3)**
The primary objective of this course is to introduce the student to macroeconomic theory including a study of the economizing problem, pure and mixed capitalism, demand and supply, the economic functions of government, national income accounting, the business cycle, employment theory, money and banking, and fiscal policy.

Economics 204. Principles of Microeconomics. **(S)(3)**
The primary objective of this course is to introduce the student to microeconomic theory, including demand and supply analysis, elasticity, the production function, price and output determination, costs of production, pricing and employment of resources, and market structures.

Economics 251. Environmental Economics. **(F)(3)**
Societal choice in the use of scarce resources is related to ecosystem survival, environmental quality, and human welfare. (Odd years only.)

Economics 354. Managerial Economics. **(F)(3)**
This course is designed to illustrate how business managers can utilize knowledge of economic principles to help make managerial decisions. Topics covered will include: market demand, empirical estimation of demand and/or supply, production and costs, decisions under uncertainty, organizational decisions and production decisions. *Prerequisites:* Economics 204 and Behavioral Science 245. (Even years only.)

Economics 363. Money and Banking. **(S)(3)**
Objectives of this course include introducing the student to the development of the commercial banking system, the Federal Reserve System, and further exploration of fiscal and monetary policy. *Prerequisite:* Economics 203. (Even years only.)

Economics 488. Business Seminar. **(S)(3)**
An advanced course of selected topics of interest in the field of Economics. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses or permission of the instructor. Note: More than one, with different titles, may be used to meet Economics minor requirements. (Even years only.)

Additional courses listed under: Behavioral Sciences 245 and History 241.

MARKETING

Marketing 272. Personal Selling. **(F)(3)**
The interpretation of sales techniques and methods, prospecting customers, interviews, sales presentations, demonstrations, and closing the sale are presented. (Formerly Business Administration 272)

Marketing 321. Principles of Marketing. **(S)(3)**
Study of the movement of goods from producer to consumer and an examination of the functions of the marketing process, marketing institutions, channels of distribution, legal aspects, and policy considerations. (Formerly Business Administration 321)

Marketing 370. Advertising. **(F)(3)**
An overview of the social, economic, and marketing environment in which advertising functions. This course will provide an in-depth coverage of advertising activities as they relate to consumer-driven mass media marketing activities. The course will focus on advertising planning and management as well as media strategies available to organizations. Although an understanding of marketing in general is helpful, Marketing 321 is not a prerequisite. (Formerly Business Administration 370)

Marketing 421. Business Logisitics. **(F)(3)**
This course is a study of the broad field of logistics. A major emphasis will be the regulatory environments of each of the major modes of transport: rail, motor, water, air, and pipeline. Emphasis will be placed on the crucial nature of distribution and handling of materials in domestic and international markets. A systems approach to transportation, warehousing, material handling, packaging, etc. will be followed. Although an understanding of Marketing in general is helpful, Marketing 321 is not a prerequisite. (Formerly Business Administration 421)

Marketing 488. Business Seminar. **(on demand)(3)**
An advanced course of selected topics of interest in the field of Marketing. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses.

OFFICE ADMINISTRATION

Office Administration 111. Elementary Keyboarding. **(on demand)(F,S)(3)**
A first course in keyboarding/typewriting for the business student. Also for those needing one course in typing for personal use. Keyboard and fundamental processes are presented. Students presenting one or more units of high school keyboarding/typewriting may not take this course.

Office Administration 121. Elementary Shorthand. **(on demand)(F)(3)**
Principles of Gregg Shorthand, Series 90. Places emphasis on theory and developing reading and writing skills. Letter transcription introduced. Students presenting one or more units of high school shorthand may not take this class. Laboratory required.

Office Administration 122. Intermediate Shorthand. **(on demand)(S)(3)**
Greater emphasis placed on writing and transcribing with speed and accuracy. Gregg theory and basic typewriting concepts reviewed. *Prerequisite:* Office Administration 222 with a grade of at least a "C" or the equivalent.

Office Administration 221. Dictation and Transcription. **(on demand)(3)**
Emphasis placed on speed in taking dictation and in transcription skills. *Prerequisite:* Office Administration 222 with a grade of at least "C" or the equivalent.

Office Administration 222. Intermediate Keyboarding Applications. **(F)(3)**
Emphasis is placed upon techniques, speed, and accuracy.

Office Administration 262. Word Processing. **(S)(3)**
This course is to strengthen students' use of computer software for performing tasks in a computerized office environment. Emphasis is placed on generating reports and documents used in different offices, such as: sales, accounting, legal, medical, government, and other technical offices. *Prerequisite:* Computer Information Systems 241.

Office Administration 301. Business English: Theory and Applications. **(F)(3)**
Comprehensive review of grammar and usage. Emphasizes and reinforces business applications and vocabulary in areas such as business law, word processing, merchandising management, and computer information systems. *Prerequisite:* English 111 with a grade of at least "C".

Office Administration 302. Business Communications. **(S)(3)**
Realistic methods of mastering writing skills needed in business situations. Emphasizes instruction in both the basic and advanced techniques of preparing and organizing business letters, memoranda, and reports. Also enhances speaking, reading and listening skills. *Prerequisite:* English 111 or Office Administration 301.

Office Administration 431. Office Systems. **(S)(4)**
Emphasis is placed on an information systems approach of office proficiency, records management, internal and external office communications, information processing and administrative support services. Laboratory required. *Prerequisite:* Office Administration 222.

Office Administration 488. Business Seminar. **(on demand)(3)**
An advanced course of selected topics of interest in the field of Office Administration. *Prerequisites:* Business major/minor with Junior or Senior standing and twenty-one credit hours in business courses or permission of the instructor.

II. DEPARTMENT OF EDUCATION

Kenneth J. Henry, *Department Head*
Early Elementary Education — Middle Grades Education — Secondary Education

The undergraduate programs in the Department of Education have as their primary objective the preparation of superior teachers for public and private schools.

At Union College the education of prospective teachers is the responsibility of the College as a whole, not the Department of Education alone.

The teacher education programs described in the following pages prepare the student to receive a baccalaureate degree and, upon recommendation of the College, a Kentucky teacher's certificate. A

student who wishes to teach in a state other than Kentucky should determine certification requirements in that state (usually quite similar to Kentucky's), and plan his program accordingly. Information on certification requirements in other states is available in the Registrar's Office and in the Career Planning and Placement Office.

Students may take 12 hours in Education courses prior to admission to the Teacher Education Program from among Education 241, 242, 351, 352, 460, and Special Education 201. After 12 hours have been completed, students must be unconditionally admitted to the Teacher Education Program before registering for any further courses.

Graduates may continue their professional preparation by entering the Graduate Studies Program. A separate catalog is available from the Dean of Graduate Academic Affairs.

Goals of the Teacher Education Program

The Teacher Education Program at Union College seeks to ensure the realization of the following outcomes by each student:

1. Professional Knowledge
   —develops a historical perspective of the development of American schooling
   —understands human growth and development
   —possesses knowledge of educational psychology/theories of learning
   —understands various instructional theories
   —has knowledge of special needs populations
   —understands the professional/ethical role of the teacher
   —develops a personal teaching philosophy
2. Professional Abilities
   —identifies and utilizes research to facilitate teaching
   —plans instruction
   —implements instruction
   —evaluates instruction
   —stimulates student learning
   —manages classroom effectively
   —maintains positive relations with students
   —maintains classroom discipline
   —maintains positive relations with colleagues, parents, and community
3. Professional Traits
   —practices appropriate personal/professional behavior
   —receptive to change/new ideas
   —willing to take risks/learns from successes and failures
   —strives for high levels of achievement
   —assumes multiple professional roles
   —seeks opportunities for professional growth
   —attends to special needs populations
   —values cultural diversity

Kentucky Professional Standards Board Standards

The Kentucky Professional Standards Board has adopted 8 standards for beginning teachers. The goals of the Union College Teacher Education Program support and expand upon these New Teacher Standards:

1. The teacher designs/plans instruction and learning climates that develop student abilities to use communication skills, apply core concepts, become self-sufficient individuals, become responsible team members, think and solve problems, and integrate knowledge.
2. The teacher creates a learning climate that supports the development of student abilities to use communication skills, apply core concepts, become self-sufficient individuals, become responsible team members, think and solve problems, and integrate knowledge.
3. The teacher introduces/implements/manages instruction that develops student abilities to use communication skill, apply core concepts, become self-sufficient indiviausl, become responsible team members, think and solve problems, and integrate knowledge.
4. The teacher assesses learning and communicates results to students and others with respect to student abilities to use communication skills, apply core concepts, become self-sufficient individuals, become responsible team members, think and solve problems, and integrate knowledge.
5. The teacher reflects on and evaluates specific teaching/learning situations and/or programs.
6. The teacher collaborates with colleagues, parents, and other agencies to design, implement, and support learning programs that develop student abilities to use communication skills, apply core concepts, become self-sufficient individuals, become responsible team members, think and solve problems, and integrate knowledge.
7. The teacher evaluates his/her overall performance with respect to modeling and teaching Kentucky's learning goals, refines the skills and processes necessary, and implements a professional development plan.
8. The teacher demonstrates a current and sufficient academic knowledge of certified content areas to develop student knowledge and performance in those areas.

Requirements for Admission to the Teacher Education Program

Students entering the Teacher Education Program must be approved by the Teacher Education Committee after completion of the following:

1. Completed application and an essay to validate writing proficiency.
2. A minimum composite score on the enhanced ACT of 21 with a minimum cumulative GPA of 2.5 (based on completion of 30 semester hours of credit). Transfer students must also maintain a minimum cumulative GPA of 2.5 over all course work completed at Union College. Candidates who have a composite score on the enhanced ACT of less than 21 may be admitted on successful completion of each of the subtests of the CTBS (based on established minimum scores) according to the following criteria:
   ACT composite of between 15 and 20 with a cumulative GPA of 2.5;
   ACT composite score of 14 with a cumulative GPA of 2.75;
   ACT composite score of 13 with a cumulative GPA of 3.0;
   ACT composite score of 12 with a cumulative GPA of 3.25;
   ACT composite score of 11 with a cumulative GPA of 3.5;
   ACT composite score of 10 with a cumulative GPA of 3.75.
   Students with an ACT composite score of 10 or below will not be allowed to take the CTBS for program admission.
3. Four recommendations from instructors.
4. Successful completion of an interview with College faculty to establish verbal communication proficiency.
5. Completion of English 111 **and** 112 (or their equivalents) with a minimum grade of "C" or better in **each** course.
6. Completion of Education 241 **and** 242 with a minimum grade of "C" in each course.

Students may retake any CTBS subtest(s) but must complete mandatory tutoring at the Academic Resource Center before re-taking the subtest(s).

Requirements for Admission to Student Teaching

Students **must** complete a formal application for student teaching by **mid-term** of the semester **immediately preceeding** the term in which they will student teach. Applications for admission to student teaching must be approved by the Teacher Education Committee based on the following:

1. Validation of writing proficiency.
2. Senior standing with **at least** 90 semester hours of credit with a **minimum** cumulative GPA of 2.5 and a **minimum** 2.5 GPA in the area, major, minor, teaching fields, and/or academic emphasis. Transsfer students also must hold a **minimum** 2.5 GPA on all work completed at Union College.
3. Completion of **at least** three-fourths of all required professional education courses and pre-professional courses with a **minimum** GPA of 2.5 in the professional education courses and in the pre-professsional courses.
4. Completion of **at least** three-fourths of all required courses for the teaching specialization (area, major, teaching fields, and/or academic emphasis) with a **minimum** GPA of 2.5. Completion of **all** courses for a teaching minor with a **minimum** GPA of 2.5 is required if student teaching is to be done in the teaching minor.
5. Moral, social, and ethical behavior that meets requirements of the College and the Kentucky Education Professional Standards Board.
6. Submission of a current (within the preceeding six months) medical examination including a tuberculosis test.
7. Completion of institution prerequisites for time in residence and pre-student teaching field experiences.
   Note: Grades below "C in professional education courses will not be accepted.

EARLY ELEMENTARY EDUCATION CURRICULUM

Early Elementary Education (K-4) majors need both a biological and a physical science course; **each** must include a laboratory. Appropriate NTE test(s) must be successfully completed for certification.

I. Preprofessional Courses for Students Preparing to Teach Early Elementary Education (K-4). Preprofessional courses may not be taken by Independent Study.

A. Anthropology 221 or Anthropology 251 or Political Science 231 ..... 3 semester hours

B. Art 271 — Elementary School Art ..... 3 semester hours

C. Computer Information Systems 141 — Introduction to Microcomputers and Applications ..... 3 semester hours

D. English 355 — Children's and Adolescent Literature ..... 3 semester hours

E. Mathematics 203 and 204 — Mathematics for Elementary Teachers ..... 6 semester hours

F. Music 373 — Elementary School Music ..... 3 semester hours

G. Physical Education 261 — Physical Education in the Elementary School ..... 3 semester hours

H. Physical Education Service Course ..... 1 semester hour

I. Psychology 111 — Introduction to Psychology ..... 3 semester hours

J. Sociology 241 or Geography 241 or History 233 ..... 3 semester hours

K. Speech 131 — Introduction to Public Speaking ..... 3 semester hours

II. Professional Preparation. The following requirements may not be met by CLEP, Independent Study, or the Pass/Fail option.

A. Education 241 — Introduction to Education ..... 3 semester hours

B. Education 242 — Early Involvement Internship ..... 3 semester hours

C. Education 341 — Methods of Teaching Mathematics in the Elementary School ..... 3 semester hours
(Prerequisites: Mathematics 203 and 204)

D. Education 342 — Teaching Science in the Elementary Grades ..... 3 semester hours

E. Education 351 — Human Growth and Development ..... 3 semester hours
(Prerequisite: Psychology 111)

F. Education 361 — Reading in the Primary Grades ..... 3 semester hours

G. Education 362 — Teaching Reading in the Content Subjects .....3 semester hours
(Prerequisite: Education 361 or permission of the instructor)

H. Education 432 — Methods and Materials in the Elementary School .....4 semester hours

I. Education 433 — Supervised Student Teaching in the Elementary School .....12 semester hours

J. Education 441 — Elementary School Social Studies .....3 semester hours

K. Education 460 — Learning Theories for Educators.....3 semester hours
(Prerequisite: Psychology 111)

L. Education 488 — Professional Interaction in the Schools .....3 semester hours

M. Special Education 201 — Survey of Exceptionalities .....3 semester hours
(Prerequisite: Psychology 111)
See Requirements for Admission to Student Teaching

III. Academic Emphasis
The academic emphasis component must include twenty-one semester hours in one of the following six options.

A. ENGLISH/COMMUNICATIONS:
English 111, 112, 211, 221 or 222 or 231 or 232, 355 and 401 or 421; Speech 131

B. FINE ARTS/HUMANITIES:
Art 271, 273, Music 373, two of the following: Art 132, Drama 131 and Music 121; one elective in Religion or Music numbered 300 or above (3 hrs); and Religion 111 or 112 or 231

C. FOREIGN LANGUAGE:
German 111, 112, 211, 212, 331, 495, Independent Study (6 hrs); OR French 111, 112, 211, 212, 331 and 495 Independent Study (6 hrs)

D. MATHEMATICS STUDIES:
Mathematics 131, 203, 204, 211, 301, Computer Information Systems 121, one elective in Mathematics (3 hrs)

E. SCIENCES:
Biology 111, 232 or 233 or 330 or 331, General Science 471, Environmental Studies 350, Physics 105, 111 and 113 or 112 and 114 or Chemistry 111 and 131

F. SOCIAL AND BEHAVIORAL SCIENCES:
Geography 101, Economics 203 or 204, Political Science 101 or 231, History 201 or 202, Anthropology 221 or Sociology 131; and two electives numbered 200 or above in History or Sociology or Psychology (not to include Psychology 361)

G. SPECIAL EDUCATION: Learning and Behavior Disorders K-12 (27 semester hours)
Special Education 201, 203, 301, 303, 305, 307, 401, 403 and 405

MIDDLE GRADES EDUCATION CURRICULUM

Middle Grade (5-8) majors need at least three hours each of a biological and a physical science; one must include a laboratory. Appropriate NTE test(s) must be successfully completed for certification.

I. Preprofessional Course Requirements for Students Preparing to Teach in the Middle Grades (5-8). No Preprofessional Course may be taken by Independent Study.

A. Health 270 — Personal and Community Health.....3 semester hours

B. Physical Education Service Course .....1 semester hour

C. Psychology 111 — Introduction to Psychology.....3 semester hours

D. Sociology 241 or Geography 241 or History 233 .....3 semester hours

E. Speech 131 — Introduction to Public Speaking.....3 semester hours

II. Professional Preparation for Middle Grades Teachers (5-8)
These requirements may not be satisfied by CLEP, Independent Study or the Pass/Fail option.

A. Education 241 — Introduction to Education .....3 semester hours

B. Education 242 — Early Involvement Internship .....3 semester hours

C. Education 361 — Reading in the Primary Grades.....3 semester hours

D. Education 362 — Teaching Reading in the Content Subjects .....3 semester hours
(Prerequisite: Education 361)

E. Education 443 — Supervised Student Teaching in the Middle Grades .....12 semester hours

F. Education 460 — Learning Theories for Educators.....3 semester hours
(Prerequisite: Psychology 111)

G. Education 488 — Professional Interaction in the Schools .....3 semester hours

H. Special Education 201 — Survey of Exceptionalities .....3 semester hours
(Prerequisite: Psychology 111)
See Requirements for Admission to Student Teaching

III. Specialization Component
These requirements may not be satisfied by CLEP, Independent Study or the Pass/Fail option.

A. Education 352 — Human Growth and Development in the Middle Grades .....3 semester hours
(Prerequisite: Psychology 111)

B. Education 370 — Curriculum Development for the Middle Grades .....3 semester hours

C. Education 436 — Methods and Materials for the Middle Grades.....4 semester hours
(Prerequisite: All 200-and 300-level courses listed under Professional Requirements and Professional Preparation)

See Requirements for Admission to Student Teaching

IV. Teaching Fields
(Each student will complete a minimum of 24 semester hours in two fields of study.)

A. ENGLISH AND COMMUNICATION:
English 111, 112, 231 or 232, 355, 401 or 421, 311 or 402, Speech 131, and one English Elective (3 hrs)

B. SCIENCE:
Biology 111, 233 or 321, and 232 or 330; Physics 111 and 113, or 211 and 213; Chemistry 101 or 111 and 131; Environmental Studies 110; One of the following sequences of courses: Physics 112, 114 and a physics elective (not to include Physics 105, 212 and 214); Chemistry 112, 132, and a chemistry elective; or Physics 105 and Environmental Studies 350

C. SOCIAL STUDIES:
History 131, 132, 201, 202, Political Science 101 or 110, Geography 101, Economics 203 or 204, Sociology 131 or Anthropology 221

D. MATH OPTION I:
Mathematics 110, 203, 204, 241, 301, 331, Computer Information Systems 121, and one mathematics elective.

E. MATH OPTION II:
A minor in mathematics plus Mathematics 203 and 204.

F. SPECIAL EDUCATION Learning and Behavior Disorders K-12 (27 semester hours):
Special Education 201, 203, 301, 303, 305, 307, 401, 403, and 405

SECONDARY EDUCATION CURRICULUM

Union College offers a variety of certification areas for secondary students. Certification for grades 9-12 includes the following:

A.	Areas of Concentration:	English, Mathematics-Physical Science, Science, and Social Studies
B.	Teaching Majors:	Biology, Chemistry, Comprehensive Business, English, History, History and Political Science, Mathematics, Physical Education, Physics, and Sociology
C.	Teaching Minors:	Biology, Chemistry, Drama, English, Health, History, Mathematics, Physics, Psychology, and Sociology

In order to be eligible for certification in a Teaching Minor, Secondary Majors must also be eligible for certification in an Area of Concentration or a Teaching Major. See appropriate catalog listings for academic requirements for each of the Areas of Concentration, Teaching Majors and Teaching Minors. Secondary Majors (9-12) need at least three hours each of a Biological and a Physical Science; one must include a lab. Appropriate NTE test(s) must be successfully completed for certification.

I. Preprofessional Course Requirements for Students Preparing to Teach in the Secondary School (9-12). No Preprofessional Course may be taken by Independent Study.

A. Geography 241 or History 233 or Sociology 241 ..... 3 semester hours
B. Health 270 — Personal and Community Health ..... 3 semester hours
C. Physical Education Service Course ..... 1 semester hour
D. Psychology 111 — Introduction to Psychology ..... 3 semester hours
E. Speech 131 — Introduction to Public Speaking ..... 3 semester hours

II. Professional Preparation for Secondary Teachers (9-12). These requirements may not be satisfied by CLEP, Independent Study or the Pass/Fail option. A grade point average of 2.5 is required and no grade below a "C" is acceptable.

A. Education 241 — Introduction to Education ..... 3 semester hours
B. Education 242 — Early Involvement Internship ..... 3 semester hours
C. Education 351 — Human Growth and Development ..... 3 semester hours
D. Education 452 — Methods and Materials in the Secondary School ..... 4 semester hours
E. Education 453 — Supervised Student Teaching in the Secondary School ..... 12 semester hours
F. Education 460 — Learning Theories for Educators ..... 3 semester hours
(*Prerequisite:* Psychology 111)
G. Education 488 — Professional Interaction in the Schools ..... 3 semester hours
H. Special Education 201 — Survey of Exceptionalities ..... 3 semester hours
(*Prerequisites:* Education 241 and 242)

See Requirements for Admission to Student Teaching.

SPECIAL EDUCATION CURRICULUM

Early Elementary Education majors with an academic emphasis in special education (learning and behavior disorders) will be certified for regular classroom teaching K-4 and endorsed for special education (learning and behavior disorders) K-12. Middle grades majors with a teaching field in special education will be certified in one academic teaching field (e.g., social studies) and in special education (learning and behavior disorders) K-12. Appropriate NTE test(s) must be successfully completed for certification.

Professional Preparation for Early Elementary Education Majors with an academic emphasis in Special Education and Middle Grades Education Majors with a Teaching Field in Special Education. These requirements may not be satisfied by CLEP, Independent Study, or the Pass/Fail option.

A. Special Education 201 — Survey of Exceptionalities ..... 3 semester hours
B. Special Education 203 — Theories of Behavioral Management ..... 3 semester hours
C. Special Education 301 — Assessment of Exceptional Learners ..... 3 semester hours
D. Special Education 303 — Prescriptive Programming for Exceptional Learners ..... 3 semester hours
E. Special Education 305 — Methods and Materials in Special Education ..... 3 semester hours
F. Special Education 307 — Field Experiences in Special Education ..... 3 semester hours
G. Special Education 401 — Early Childhood Programs for Exceptional Learners ..... 3 semester hours
H. Special Education 403 — Career Education for Exceptional Learners ..... 3 semester hours
I. Special Education 405 — Programs and Services for Exceptional Learners ..... 3 semester hours

ASSOCIATE OF APPLIED SCIENCE IN EDUCATION*

	Credit Hours
English 111 and 112 — Freshman Composition	6
Natural Science (Environmental Studies 101 recommended)	4
Sociology 131 — Introduction to Sociology or Sociology 421 — Rural and Urban Sociology	3
Psychology 111 — Introduction to Psychology	3
Humanities Requirement (speech or theatre recommended)	3
Art 271 — Elementary School Art	3
Music 373 — Elementary School Music	3
Education 241 — Introduction to Education	3
Education 351 — Human Growth and Development	3
Education 440 — Early Childhood Education	3
English 355 — Children's and Adolescent Literature	3
Health 270 — Personal and Community Health	3
Sociology 371 — Social Institutions	3
Health 361 — Principles of Nutrition	3
Special Education 201 — Survey of Exceptionalities	3
Supervised Experience in Early Childhood Education	3
Electives — Recommended from Appalachian Semester, Kentucky History, Typing, Recreational Leadership, Arts & Crafts, & Structure of Number Systems	12
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ASSOCIATE OF APPLIED SCIENCE FOR GRADUATES OF STATE VOCATIONAL SCHOOLS

Union College offers a program at the associate degree level for students who have earned a diploma from a state vocational school. It is possible to earn up to twenty-four hours of credit toward an associate degree.

	Credit Hours
English 111 — Freshman Composition I	3
English 112 — Freshman Composition II	3
Psychology 111 — Introduction to Psychology	3
Speech 131 — Introduction to Public Speaking	3
Natural Science Core Requirement	4
Social Science Core Requirement	3
Humanities Core Requirement	3
Credit for Vocational Block	up to 24
Credits toward specific degree goal	20

*Designed for those who work in day care centers and agencies dealing with small children where teacher certification is not required.

EDUCATION

Students may take 12 hours in Education courses prior to admission to the Teacher Education Program from among Education 241, 242, 351, 352, 460 and Special Education 201. After 12 hours have been completed, students must be unconditionally admitted to Teacher Education before registering for any further Education courses.

Education 241. Introduction to Education. (F,S)(3

Explores the purposes, functions, and aims of education. Students are taken on an exploration of various topics including: teaching as a profession, historical and philosophical foundations of education, the theories and influences of great education thinkers, legal aspects of education, and the funding and structure of school programs.

Education 242. Early Involvement Internship. (F,S)(3

A practical course in which students are assigned to a school classroom and meet periodically to discuss and generalize their experiences. The course focuses specifically on the key aspects of the Kentucky Education Reform Act of 1990 and the Kentucky Curriculum Frameworks. To be taken concurently with Education 241. A $15 fee is charged. 46 hours of field experience is required.

Education 341. Methods of Teaching Mathematics in Elementary School. (F,S)(3

Modern methods and materials for teaching mathematics in the elementary school. *Prerequisite* Mathematics 203-204.

Education 342. Teaching Science in the Elementary Grades. (F)(3

The student will examine science curriculum materials and activities in terms of Piaget's developmental stages. Topics will be identified that could be taught using experimental, inquiry, or discovery methods. Lesson plans will be developed using each of the three methods and activities constructed.

Education 351. Human Growth and Development. (F,S)(3

This course focuses on basic concepts from human development from conception to death. *Prerequisite* Psychology 111.

Education 352. Human Growth and Development in the Middle Grades. (S)(3

This course focuses on the physical, intellectual, personal, social, and moral development of transescent students. Influences of families, peers, school, and mass media on the transescent are highlighted.

Education 361. Reading in the Primary Grades. (F,S)(3

Basic principles, techniques, and materials for the teaching of reading in the primary grades; emphasis on Methods and Materials which provide for developmental and differentiates instruction. Includes observation, micro-teaching demonstrations, making of lesson plans, and evaluation of a child's readiness. (10 hours of field experience required.)

Education 362. Teaching Reading in the Content Subjects. **(F,S)(3)**
Comprehension, study, and reference skills as they pertain to reading in the content subjects; emphasis on language arts and the reading-writing relationship. *Prerequisite:* Education 361 (except for English majors).

Education 370. Curriculum Development for the Middle Grades. **(F)(3)**
This course involves tracing the history of curriculum development in the United States, as well as identifying trends in the curriculum of the middle school. It will include curriculum design, middle school terminology and techniques, social and cultural forces, political forces, programs, organization and evaluation.

Education 401. Introduction to Counseling and Guidance. **(Sum)(3)**
Educational, sociological, and psychological foundations of counseling and guidance in schools, colleges, and related service-oriented agencies. Essential counseling and guidance services, policies, practices and procedures. *Prerequisite:* Psychology 111.

Education 432. Methods and Materials in the Elementary School. **(F,S)(4)**
Emphasis on language arts and methods in the early elementary classroom. (15 hours of field experience required.)

Education 433. Supervised Student Teaching in the Elementary School. **(F,S)(12)**
Supervised student teaching in the elementary school for a period of 12 weeks. Students will work closely with a classroom teacher, a college supervisor, and the school principal in a team approach to apply knowledge and skills acquired in their coursework. Application must be made by mid-term of the semester preceeding student teaching. *Prerequisites:* See Requirements for Admission to Student Teaching. A supervisory fee of $100 is charged.

Education 436. Methods and Materials for the Middle Grades. **(F)(4)**
This course focuses on instructional strategies and materials needed for releasing the potential for the middle grade student leading from concrete to abstract learning. The course will include curriculum concepts and designs, innovative activities using hands-on-experiences, techniques of writing lesson plans, the development of a unit of work, materials for journal writing, class demonstrations and evaluation. (15 hours of field experience required.)

Education 440. Early Childhood Education. **(Sum)(3)**
Survey of the physical, emotional, mental, and psychological development of the child under six and the role of the kindergarten teachers in working with such a child.

Education 441. Elementary School Social Studies. **(F,S)(3)**
Methods and materials for the teaching of elementary school social studies, including kindergarten through eighth grade curricula. The philosophies, terminology, and evaluation of methods and materials will be included.

Education 443. Supervised Student Teaching in the Middle Grades. **(F,S)(12)**
Supervised student teaching in the middle school for a period of 12 weeks. Students will work closely with two classroom teachers, a collee supervisor, and the school principal in a team approach to apply knowledge and skills acquired in their coursework. Application must be made by mid-term of the semester preceeding student teaching. *Prerequisites:* See Requirements for Admission to Student Teaching. A supervisory fee of $100 is charged.

Education 452. Methods and Materials in the Secondary School. **(F,S)(4)**
Current teaching methods, materials, and innovations in the secondary school with directed observations. (25 hours field experience.)

Education 453. Supervised Student Teaching in the Secondary School. **(F,S)(12)**
Supervised student teaching in the secondary school for a period of 12 weeks. Students will work closely with a classroom teacher, a college supervisor, and the school principal in a team approach to apply knowledge and skills acquired in their classwork. Application must be made by mid-term of the semester preceeding student teaching. *Prerequisite:* See Requirements for Admission to Student Teaching. A supervisory fee of $100 is charged.

Education 460. Learning Theories for Educators. **(F,S)(3)**
The major focus of this course is an exploration of how individuals learn, including specific learning theories and their relation to classroom teaching.

Education 468. Educational Media. **(Sum)(3)**
Practice in operating educational media and construction of classroom materials. Emphasis on educational television use in the classroom.

Education 488. Professional Interaction in the Schools. **(F,S)(3)**
A course focusing on the fole of the professional in the school. Topics include interaction with colleagues, administrators, students, parents, and other constiuencies. A primary focus of the course is classroom management and discipline.

Education 495. Independent Study. **(F,S)(3)**
Open only to advanced students in the field of Education who wish to do intensive reading in a specific interest area. *Prerequisite:* Twelve semester hours of Education and permission of the Head of the Department.

SPECIAL EDUCATION

Special Education 201. Survey of Exceptionalities. **(F,S,Sum)(3)**
An introductory course examining the characteristics, identification, diagnosis, and remediation procedures for use with exceptional children.

Special Education 203. Theories of Behavioral Management. **(S)(3)**
This course will help students develop competency in the application of psychological principles to the classroom setting. This will include classroom observation techniques, behavior management task and concept analysis, and development of behavioral objectives. *Prerequisite:* Special Education 201.

Special Education 301. Assessment of Exceptional Learners. **(S)(3)**
A course through which students will develop understanding of the theory and competency in the practice of educational evaluation. Emphasis will be placed on testing practices most applicable for classroom teachers including use of criterion-referenced and norm-referenced testing, record keeping and selection of appropriate instructional strategies. *Prerequisites:*Special Education 201, Special Education 203, and admission to the Teacher Education Program.

Special Education 303. Prescriptive Programming for Exceptional Learners. **(S)(3)**
This course will allow students to develop competency in teaching learners with a wide range of exceptionalities in the regular classroom. Principles of normalization, mainstreaming, and individualized instruction will be introduced. *Prerequisites:* Special Education 201, Special Education 203 and admission to the Teacher Education Program.

Special Education 305. Methods and Materials in Special Education. **(S)(3)**
This course will prepare students for selection, design, and evaluation of specialized teaching strategies and materials for specific instructional needs of pupils with varying behavioral and learning characteristics. *Prerequisites:* Special Education 201, Special Education 203, Special Education 301 Special Education 303, and admission to the Teacher Education Program.

Special Education 307. Field Experiences in Special Education. **(S)(3)**
A course devoted to field experiences in which students will develop and hone skills in providing resource help to exceptional children either in a resource room or in concert with a classroom teacher Concurrent registration in Special Education 305 is required. *Prerequisites:* Special Education 201 Special Education 203, Special Education 301, Special Education 303, and admission to the Teacher Education Program.

Special Education 401. Early Childhood Programs for Exceptional Learners. **(F)(3)**
This course investigates guidance and needs of exceptional early childhood learners who are mildly to moderately disabled. *Prerequisites:* Completion of all 200 and 300 level Special Education courses and admission to the Teacher Education Program.

Special Education 403. Career Education for Exceptional Learners. **(F)(3)**
This course will investigate principles and practices of vocational guidance, the process of choosing a vocation, theories of vocational choice, sources and dissemination of occupational information *Prerequisites:* Completion of all 200 and 300 level Special Education courses and admission to the Teacher Education Program.

Special Education 405. Programs and Services for Exceptional Learners. **(S)(3)**
A course designed to review the many types of services and program delivery systems available to exceptional learners and their families. Current legal requirements and ethical considerations involved with specific decisions of placement and programs are explored. *Prerequisites:* Completion of all 200 and 300 level Special Education courses and admission to the Teacher Education Program.

II. DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

Larry Inkster, *Department Head*
Athletic Training — Health — Physical Education — Sports Management

HEALTH

Students preparing to teach in Kentucky will receive both elementary and secondary certification by ılfilling the requirements of this program.

Requirements for a Minor in Health Education: Twenty-one semester hours which must include lealth 131, 270, 311, 340, 361 or 461, and 475.

lealth 131. First Aid and Safety Education. **(S)(3)**
Designed to aid the student in developing an understanding of the basic principles of accident prevention as applicable to the home, the highway, and the school. First aid measures for various injuries and illnesses are discussed and practiced.

lealth 252. Mental Health. **(F)(3)**
Basic needs for mental and emotional health. Emphasis on curriculum content and teaching aspects of mental health, and a more thorough understanding by the prospective teacher of mental health issues including stress and lifestyle, gender differences, life/death decisions, suicide, and child abuse. (Even years only.)

lealth 270. Personal and Community Health. **(F)(3)**
The study of health related factors enabling intelligent decisions as they relate to the physical, mental, and social health of self, family, and community at present and for the future.

lealth 272. Drugs and Society. **(S)(3)**
The effect of drug use and abuse on the individual and society. Strategies for making intelligent decisions regarding drugs will be discussed. Drugs and the sporting society will also be included. (Odd years only.)

lealth 311. Health Education —K-12. **(S)(3)**
The experiences, activities, and instruction of elementary and secondary students that lead to intelligent self-direction of health behavior.

lealth 320. General School and Community Safety. **(S)(3)**
The review of principles and practices in establishing and maintaining a healthful and safe environment in the school, gymnasium, and playground.

lealth 340. Physiology and Anatomy. **(F)(3)**
A study of cellular construction, tissues, organs, and systems of the human body. A study of the functions of these organs and systems as it deals with health and physical education discipline.

lealth 361. Principles of Nutrition. **(F)(3)**
A study of the composition, nutritive value, and utilization of food.

lealth 451. School and Community Health Workshop. **(Sum)(3)**
Reveals the relationship needed between the school and community to promote the total health of the population. Speakers are secured from official agencies, voluntary agencies, professional agencies, sponsored agencies, and other colleges. Small groups are utilized for discussion, field trips, and study through audio-visual aids.

lealth 461. Nutrition for Special Needs. **(S)(3)**
A course focusing on the nutrition needs through the life cycle, energy metabolism, and therapeutic applications of nutrition.

lealth 475. Critical Areas in Health. **(F,Sum)(3)**
Specific health problems confronting society today with particular reference to secondary age students.

lealth 485. Field Experiences in Health. **(F,Sum)(3-6)**
A directed field experience in some phase of health, with consideration given to both the needs and interests of the student. Opportunities will be available for practical experiences in the school situation, official health agencies, and voluntary agencies.

lealth 495. Independent Study. **(F,Sum)(1-3)**
Independent study for advanced students only.

PHYSICAL EDUCATION

Students preparing to teach in Kentucky will receive both elementary and secondary certification b fulfilling the requirements of this program.

Requirements for a Major in Physical Education: For those students desiring teaching certificatior thirty-seven semester hours which must include Physical Education 241, 275, 340, 351, 360, 361, 41C 420, 421, 425, Health 340, and four service courses. Physical Education 261 and 461 are required but wil not count toward the required 37 hour major.

For students not desiring teaching certification, thirty-seven semester hours are required which mus include Physical Education 241, 321, 340, 351, 360, 361, 410, 420, 421, 425, Health 340, and four servic courses.

A maximum of eight semester hours of service courses may be credited toward graduation. Physica education majors must take four service courses. This is the maximum that can be applied to a majoı but others may be taken as electives. The following service courses also meet the elementary an secondary requirement for physical education.

Physical Education 111. Beginning Swimming (Non-swimmers only) (F,S,Sum)(1

Physical Education 112. Intermediate Swimming. (F,S,Sum)(1

Physical Education 121. Team Sports. (F)(1

Physical Education 122. Volleyball. (F,S)(1

Physical Education 132. Golf. (S)(1

Physical Education 133. Tennis and Badminton. (S,Sum)(1

Physical Education 134. Personal Fitness and Aerobic Activities. (F,S)(1

Physical Education 136. Weight Training. (F)(1

Professional Courses

Physical Education 201. Theories of Coaching Football. (F)(3
The practical study of the game of football, as it applies to the coach and player. A study of th fundamental skills, principles, and concepts. (Odd years only.)

Physical Education 202. Coaching Men's and Women's Basketball. (F)(3
(Even years only.)

Physical Education 204. Coaching Baseball and Softball. (S)(3

Physical Education 241. History and Philosophy of Physical Education. (S)(3
From primitive man through the present, with particular emphasis on Greek physical educatior European systems, and development of physical education in North America. Some research int the history of various sports.

Physical Education 261. Physical Education in the Elementary School. (F,M,Sum)(3
The role of the classroom teacher in physical education. Emphasis is placed on the application c game, movements, exploration, rhythms, and self testing. Included are screening procedures for th assessment of motor development.

Physical Education 271. Sports Officiating. (F)(3
Rules and officiating techniques in football, basketball, baseball, and track.

Physical Education 275. Principles of Elementary Movement Forms. (F)(3
An experience in discovering the principles behind basic movement forms at the elementary physica education level. Various movement theories and concepts will be explored and examined on th cognitive and kinesthetic bases.

Physical Education 321. Recreational Leadership. (S)(3
Leadership techniques in music, social games, arts and crafts, dramatics, camping, nature, and sports Designed to aid students in enriching their own leisure time and to prepare for leadership in teaching full-time Christian service, and social service.

Physical Education 340. Motor Development. (F)(3
An examination of an individual's motor development across the lifespan. Particular emphasis wi be placed on the effect physical activity has on growth and development.

Physical Education 351. Tests and Measurements in Health and Physical Education. (S)(3
Evaluating health and physical education by the construction and administration of tests. Emphasize reliability, objectivity, validity of tests, and grading systems.

hysical Education 360. Sport in Society. **(S)(3)**
A study of sport as a social institution in contemporary North American society. Emphasis will be placed on sport and its relationship with education, youth, women, politics, racism, and professionalism.

hysical Education 361. Organization and Administration of Physical Education nd Athletics. **(S)(3)**
Administration of physical education and athletic programs in schools, with special emphasis on philosophy and leadership styles. Includes budget and finance, office management, curriculum development, facilities, legal factors, and public relations.

hysical Education 410. Exercise Physiology. **(S)(3)**
The effects of exercise and physical activity on various systems of the human body. Laboratory activities included. *Prerequisite:* Health 340 or permission of the instructor.

hysical Education 420. Physical Education for the Exceptional Child. **(F)(3)**
Health conditions which require the physical education program to be adapted to meet the needs of individuals with handicapping conditions will be studied. Additional emphasis on national, state, and local agencies designed to help meet the needs of these individuals. Some work with a local, exceptional population may be required.

hysical Education 421. Kinesiology. **(S)(3)**
An analysis of human motion and its relation to athletic and gymnastic activities; practical application of these principles.

hysical Education 425. Psychological Foundations of Sport and Human Performance. **(F,M)(3)**
An introduction into the psychological realm of sport and physical activity and its relationship to other disciplines. The objective of this course is to enable students to understand and apply available information from sport psychology in order to make sport and physical activity a more productive and beneficial experience for the participants.

hysical Education 461. Physical Education in the Secondary School. **(F)(3)**
Topical areas such as philosophy, teacher certification, competencies, and professional activities will be covered. Curriculum construction, instructional methods, class management and techniques for teaching specific activities will be considered as they relate to the secondary level.

hysical Education 495. Independent Study. **(F,S,Sum)(3)**
Independent work for advanced students only.

ATHLETIC TRAINING

Requirements for a Major in Athletic Training: Fifty-eight hours which must include Athletic raining 101, 151, 201, 231, 232, 271, 321, 371, 372, 431, 432, 451, Health 131, 270, 272, 311, 340, 361, and hysical Education 351, 410, 421, and 425.

Completion of this major will not automatically certify the student as a qualified athletic trainer; the ational Athletic Trainer's Association (NATA) examination will have to be passed. But, courses included in the major plus other courses such as statistics, psychology, and chemistry, already included n the Liberal Education Core, will prepare each student in areas necessary for successful completion of he (NATA) examination.

thletic Training 101. Introduction to Athletic Training. **(F)(3)**
Practical study and evaluation of various methods of conditioning. Emphasis on preventive and protective measures, practical study involving basic principles of massage, bandaging, strapping, and first aid. Analysis of the instruction and operation of the training room.

thletic Training 151. Athletic Training Practicum I. **(S)(1)**
This course expands on the various taping, wrapping, padding and splinting techniques used in the training room and on the fields of competition. *Prerequisite:* Athletic Training 101.

thletic Training 201. Injury Recognition I. **(S)(3)**
This course will expand the aspects of Introduction to Athletic Training. Special emphasis will be placed on the evaluation of lower extremity injuries. *Prerequisite:* Athletic Training 101.

thletic Training 231. Injury Recognition II. **(F)(3)**
Continued expansion of the prevention and care of athletic injuries with special emphasis placed on the evaluation of upper extremity injuries. *Prerequisite:* Athletic Training 201.

Athletic Training 232. Athletic Training Practicum II. **(F)(1**
This course develops the skills needed in the recognition and treatment of emergency and lif threatening situations. CPR certification will be obtained. *Prerequisite:* Athletic Training 151.

Athletic Training 271. Therapeutic Modalities. **(S)(3**
This course focuses on the techniques, the indications, and the contraindications of therapeuti modalities in the clinical and athletic training setting. Use of electrical muscle stimulation, ultrasounc hydroculators, and thermal and cold modalities will be included. *Prerequisite:* Athletic Training 231

Athletic Training 321. The Pediatric Athlete. **(S)(3**
The special needs, concerns, and injuries of the young athlete. Topics include nutrition, trainin medical care, growth plate and overuse injuries.

Athletic Training 371. Therapeutic Rehabilitation. **(S)(3**
The techniques of rehabilitation program development and the application of rehabilitation proce dures of athletic injuries will be explored. Includes the proper application of isokinetic, isometri and istonic equipment. *Prerequisite:* Athletic Training 231.

Athletic Training 372. Athletic Training Practicum III. **(S)(1**
This course further explores and develops the knowledge of injury assessment, treatment, and re habilitation of athletic injuries. *Prerequisite:* Athletic Training 232.

Athletic Training 431. Seminar in Athletic Training. **(F)(3**
Intensive study and research pertaining to the field of athletic training and sports medicine i preparation for the National Athletic Trainer's Association certification test. *Prerequisite:* Athleti Training 231.

Athletic Training 432. Athletic Training Practicum IV. **(F)(1**
This course investigates the special needs of the female, the young, and the physically challenge athlete. *Prerequisite:* Athletic Training 372.

Athletic Training 451. Internship in Athletic Training. **(F,S)(3**
Supervised athletic training in a school, college, or clinic setting. *Prerequisite:* Athletic Training 432.

SPORTS MANAGEMENT

The Sports Management Program is designed for individuals interested in pursuing a career in sports management related field. Opportunities for careers exist with professional sports team YMCA's, health clubs, sporting goods sales, and athletic management. Two options within the progra are available. Option 1, Health/Fitness, is for the individual who desires to become involved as a instructor in a YMCA, health, or fitness club aspect. Option 2, Business Operations, is designed for th individual who desires to become involved in the management/sales area of sport.

Requirements for a Major for Option 1, Health/Fitness: From the Physical Education area, fou activity courses which must include Health 340, Physical Education 111, 134, 241, 340, 351, 361, 41 420, 421, and 425. From the Business area, Accounting 271 and 272, Business Administration 352, 37 and 372, Computer Information Systems 141 and 211, Marketing 272 and Office Administration 302. I addition, all students will be required to take a 6 hour internship program in a related setting.

Requirements for a Major for Option 2, Business Operations: From the Physical Education are four activity courses, Health 340 and Physical Education 241, 321, 351, 360, 361, 420, and 421. From th Business area, Accounting 271 and 272, Business Administration 310, 321, 352, 370, and 372, Compute Information Systems 141 and 211, Economics 204, and Office Administration 302. In addition, a students will take a 6 hour internship program in a related setting.

DIVISION OF HUMANITIES

L. Edward Phillips, *Chairperson*
Department of English, Journalism, and Foreign Languages
Department of Music and Fine Arts
Department of Religion and Philosophy

umanities 320. Medieval Civilization. **(F)(3)**
An introduction to the history and civilization of Western Europe from 800 to 1450. (Odd years only.)

I. DEPARTMENT OF ENGLISH, JOURNALISM, AND FOREIGN LANGUAGES

Andelys Wood, *Interim Department Head*
English — French — German — Spanish — Speech
Journalism Emphasis

tatement of Departmental Goals and Assessment Procedures

epartmental Goals and Objectives

The English major, English major with a journalism emphasis, journalism minor, and the English rea at Union College include study in both literature and writing. Requirements promote understand-g of the expressive capacities of language and appreciation of the psychological, cultural, and historical sights of literature. Students learn, as well, how to think critically and communicate effectively in a ariety of contexts. Graduates find careers in a wide range of fields, including teaching, business and dustry, public relations, and journalism. In addition, an English major, an English major with a urnalism emphasis, journalism minor, or an English Area provide excellent preparation for graduate udy in a variety of areas.

Upon graduation from Union College with a major in English, students should be able to:

1. write essays that follow the conventions of standard English usage, that are clear, organized, developed, and thoughtful, and that demonstrate awareness of audience.
2. read literature with understanding, appreciation, and judgement.
3. demonstrate knowledge of the major traditions of English and American literature.
4. discuss a literary work in the context of its historical period or genre.
5. demonstrate knowledge of the nature and functions of language or of the historical development of English.

Upon graduation from Union College with a major in English with a journalism emphasis, students ould be able to meet goals 1-5 above and also:

6. perform the editorial and production skills required in the production of typical print media.
7. understand the role, responsibility, and operation of media in American society.

Upon graduation from Union College with an area in English, students should be able to meet goals -5 above and also:

8. demonstrate more extensive preparation in writing and in speech, drama, or journalism.

tatement of Assessment Procedures

All seniors in these three programs will be asked to compile a portfolio of work they have done in ourses in the major or area and to write a short analysis of their work. This analysis should include a atement explaining why certain pieces of writing were included in the portfolio and what they show bout the student's improvement as he or she has progressed through the major. This will be due two eeks prior to the spring Assessment Day. In addition, on Assessment Day each graduating senior will

be interviewed by a departmental committee as part of the process of assessing whether departmenta goals are being met.

Requirements for a Minor in English

An additional elective English course and Education 362 are required for those seeking teache certification.

		Semester Hour
ENGL 221	Survey of English Literature I	3
ENGL 222	Survey of English Literature II	3
ENGL 231 or 232	Survey of American Literature	3
ENGL 311	Intermediate Composition	3
ENGL 372	Shakespeare	3
A genre course, chosen from the following		3
ENGL 351	The English Novel: Defoe to Brontes	
ENGL 352	The English Novel: ca. 1850 to D.H. Lawrence	
ENGL 451	Modern Poetry	
ENGL 452	American Novel	
A language course, chosen from the following		3
ENGL 401	Modern Grammar	
ENGL 421	History of the English Language	
		21

Requirements for a Major in English

In addition to all courses required for the minor, students take one of the following courses:

A period course, chosen from the following		3
ENGL 320	Medieval English Literature	
ENGL 321	English Renaissance Literature	
ENGL 322	Restoration and Eighteenth Century Literature	
ENGL 323	Nineteenth Century Literature	
ENGL 431	Contemporary American Literature	
ENGL 472	Seminar in Literature	3
An English elective		3
		30

Requirements for a Major in English with a Journalism Emphasis

Students take twenty-four hours of English courses (listed below) and twenty-three hours of Jou nalism courses which must include JOUR 152, 225, 227 and four "Union Express" practicums. Fou additional "Union Express" practicums are available to students during their junior and senior years Only four hours of practicum may be included in the twenty-three hour Journalism course requiremen

		Semester Hour
ENGL 221	Survey of English Literature I	3
ENGL 222	Survey of English Literature II	3
ENGL 231	Survey of American Literature I	3
ENGL 232	Survey of American Literature II	3
ENGL 311	Intermediate Composition	3
ENGL 401 or	Modern Grammar	
ENGL 421	History of the English Language	3
ENGL 402	Advanced Composition	
or	300-400 level literature course	3
	Elective 300-400 level literature course	3
		24

equirements for a Minor in Journalism

		Semester Hours
)UR 152	Introduction to Communications	3
)UR 180	Journalism Practicum	1
)UR 225	Newswriting	3
)UR 226	Feature Writing	3
)UR 227	Editing, Design	3
)UR 331	Media Law and Ethics	3
)UR 345	Print Design, Typography	3
wo additional practicum courses, chosen from the following		2
)UR 280	Journalism Practicum	
)UR 380	Journalism Practicum	
)UR 480	Journalism Practicum	
		21

equirements for an Area in English

ighteen hours in addition to the thirty-hour major. These six courses must include an additional nguistics course (English 401 or 421), English 402 or 419, and courses distributed among drama, urnalism, and speech (these may include Speech 131).

)ther Requirements

Students preparing to teach high school English are required to take Education 362 and should elect ne English major, minor, or area. They should consult the Education Department for full information bout course requirements.

anguage Recommendation

All students majoring or minoring in English are very strongly urged to undertake the study of at east six hours of a foreign language. For those who are considering pursuing graduate school, the ompletion of 12 semester hours of a single foreign language is recommended.

ENGLISH

nglish 090-091. English as a Second Language. **(on demand)(0)**
A preliminary, non-credit course for the foreign student seeking to acquire sufficient competence in listening to and speaking the English language to be able to communicate effectively in the classroom and in the college community.

nglish 110. Developmental English. **(F,S)(3)**
Training in college-level language skills. Designed to prepare students in English 111 and other introductory courses.

nglish 111. Freshman Composition I. **(F,S)(3)**
Writing papers from a variety of rhetorical approaches and stressing interdisciplinary connections. Reading of short prose pieces as models and for discussion. Must precede English 112.

nglish 112. Freshman Composition II. **(F,S)(3)**
Continuing the work begun in English 111, students in this course will review grammar, usage, and proofreading, will study the various types of essays, and will practice writing in response to short stories, poems, and plays. In addition, students will study the major principles of documentation and will examine the various forms of academic writing, particularly the essay examination. Must precede English 211.

nglish 113. Honors Composition and Literature. **(F)(3)**
A philosophical, historical, and critical survey of literary works and forms from the ancient world through the Medieval Period, this course is the first half of an English sequence designed to fulfill the Liberal Education Core at the honors level. *Prerequisite:* Acceptable score on national standardized test and permission of the department.

A general prerequisite for 200-level courses is the successful completion of English 111 and 11 or English 113 with a grade of "C" or better.

English 211. World Literature in Translation. **(F,S)(3**
A survey of literary works and forms from the ancient world through the Renaissance. This cours will be offered beginning summer 1995. *Prerequisite:* English 112.

English 213. Honors Western Literature. **(S)(3**
A philosophical, historical, and critical survey of literary works and forms from the Renaissanc through the Nineteenth Century, this course is the second half of an English sequence designed t fulfill the Liberal Education Core at the honors level.

English 221, 222. Survey of English Literature. **(F,S)(3**
The first half includes the Middle Ages, the Renaissance, the Restoration and Eighteenth Centur and the second includes the Romantic and Victorian periods, and the Twentieth Century. Eithe course may be taken separately and not necessarily in sequence.

English 231, 232. Survey of American Literature. **(F,S)(3**
The first half (1620-1865) begins with the Puritan writers and ends with Walt Whitman and Emil Dickinson, and the second (1865-1945) begins with Regional writers and ends with William Faulkne Either course may be taken separately and not necessarily in sequence.

English 311. Intermediate Composition. **(S)(3**
A writing course designed to reinforce and expand expository writing skills with an emphasis o writing as process.

A general prerequisite for literature courses numbered 300 and above is the successful completio of any one of English 212, 221, 222, 231 or 232. Students are urged to consult with members of th department before enrolling for advanced work.

English 320. Medieval English Literature. **(F)(3**
A study of notable works from selected genres of tenth to fifteenth-century literature with particula attention to Arthurian material, Chaucer, the Lyric, and drama. (Odd years only.)

English 321. English Renaissance Literature. **(S)(3**
A study of poetry, prose, and non-Shakespearean drama, beginning in the early sixteenth centur and ending with Milton. (Odd years only.)

English 322. Restoration and Eighteenth Century Literature. **(F)(3**
A study of major prose and poetry of the Restoration and eighteenth century, covering Dryden, Pop Swift, Johnson, and their contemporaries. (Even years only.)

English 323. Nineteenth Century Literature. **(S)(3**
Major poetry and nonfiction prose of the nineteenth century, with focus on the rise and transformatio of Romanticism in England from Blake and Wordsworth to Tennyson and Browning. (Even yea only).

English 325. African-American Literature. **(F)(3**
A critical and historical study of the development of Afro-American literature in its various form (slave narrative, essay, folk-tale, short story, poetry, novel, and drama) from its beginning to th present. (Even years only.)

English 351, 352. The English Novel. **(F,S)(3**
Historical study of the growth of the novel as a form. The first course includes novels from Defo through the Brontes; the second begins ca. 1850 and goes through D.H. Lawrence. Either course ma be taken separately and not necessarily in sequence. (Even years only.)

English 355. Children's and Adolescent Literature. **(F)(3**
A course that surveys a wide variety of fiction and poetry enjoyed by children and adolescents an suggests ways of evaluating these works as literature.

English 372. Shakespeare. **(S)(3**
A critical approach to selected histories, comedies, and tragedies, focusing on their timeless humar literary and dramatic qualities.

A general prerequisite for 400-level courses is junior standing.

English 401. Modern Grammar. **(F)(3**
An intensive review of traditional grammar in combination with selected material from structuralis views of linguistic analysis and theories of transformational grammar. Attention will be paid to th practical application of each. (Even years only.)

nglish 402. Advanced Composition. **(on demand)(3)**
Writing competency is reinforced by further developing what has been learned in previous writing courses. The instructor will assign factual narratives, autobiographies, or other significant writing projects.

nglish 419. Composition for Teachers. **(on demand)(3)**
Review of basic elements of composition with regular writing assignments in both expository and argumentative modes. Techniques of marking and evaluation of student papers. Research techniques, a methodology for teaching students to develop a research paper and practical application of the methodology through the assignment of a research paper as an integral part of the course itself.

nglish 421. History of the English Language. **(F)(3)**
A study of the origins and development of the English language from Anglo-Saxon times to the present. (Odd years only.)

nglish 431. Contemporary American Literature: Fiction. **(F)(3)**
A critical and historical study of the major American fiction (short stories and novels) since 1940, beginning with Richard Wright and J. D. Salinger and proceeding through the experimental fiction of the present time. (Odd years only.)

nglish 451. Modern Poetry. **(F)(3)**
American and British poetry, with consideration of ways of reading, criticizing, and writing verse in this century. (Odd years only.)

nglish 452. American Novel. **(S)(3)**
A critical and historical study of the development of the American novel and its form from its beginning to William Faulkner. (Odd years only.)

nglish 472. Seminar in Literature. **(S)(3)**
Intensive study of a major writer, group, or literary topic. May be repeated once for credit.

nglish 495. Independent Study. **(F,S)(3)**
Intensive individual work under supervision, in some phase of English, American, or world literature, linguistics, or composition not otherwise covered in the curriculum. *Prerequisites:* Twenty-four hours of English above English 111, 112, and permission of the head of the department. May be repeated for credit.

JOURNALISM

ournalism 180, 280, 380, 480. Journalism Practicum. **(F,S)(1)**
Operation of the campus newspaper, the Union Express, provides experience in reporting, layout, desktop publishing and photojournalism. Practicums above 280 include management. To be taken in sequence beginning with 180.

ournalism 152. Introduction to Communications. **(F,S)(3)**
Examines the significant theory, philosophy, and history of mass communication. The course enhances communication skills through oral and written assignments applied to the mass media.

ournalism 225. Newswriting. **(F)(3)**
Basic course in reporting the news. Focus on information gathering, news story content formats, working under deadlines, and use of Associated Press style.

ournalism 226. Feature Writing. **(F)(3)**
A basic course for journalists. Introduces feature story formats, interview techniques, and staff and freelance markets in newspapers, magazines, and newsletters. *Prerequisites:* English 112. (Odd years only.)

ournalism 227. Editing, Design. **(S)(3)**
Basic course in copy editing, design, desktop publishing, headline writing, and photograph handling.

ournalism 233. Photojournalism. **(on demand)(3)**
Reporting the news with a camera. Stresses composing and shooting with a 35mm camera. Includes darkroom experience. Lab fee: $25. (Odd years only.)

ournalism 331. Media Law and Ethics. **(F)(3)**
Examines the segment of U.S. laws which governs freedom of the press (First amendment, libel, invasion of privacy, pornography/obscenity). Reviews press ethicists and applies their theories to print and broadcast media. (Even years only.)

Journalism 332. Editorial and Public Relations Writing. **(on demand)(3**
Focuses on the specialized area of advocacy journalism. Introduces editorials, press releases, anc writing for organizations.

Journalism 333. Sports Writing. **(on demand)(3**
Focuses on news and feature coverage of sports events, personalities and trends. Examines technique for interviewing, analyzing statistics, and acquiring sports information. *Prerequisite:* typing profi ciency of 20 w.p.m.

Journalism 340. Advanced Reporting. **(on demand)(3**
Gathering and writing news in depth on current issues and concerns. Stresses awareness of local state, national, and international issues. *Prerequisite:* Journalism 225.

Journalism 345. Print Design, Typography. **(S)(3**
Creative and practical aspects of designing publications with the Macintosh computer, deskto publishing software, and laser printer. Instruction in designing newspapers, magazines, and news letters in the Teagle Writing Lab.

Journalism 450. Seminar in Communication. **(on demand)(3**
To prepare students for graduate study, the course offers instruction in communication theory models, and research. Experience in content analysis and survey research. *Prerequisites:* Twelve credi hours in Journalism, Junior or Senior status, and recommendation of Journalism instructor.

Journalism 485. Internship. **(4**
Professional experience with a news or public relations organization or high school in writing, editing design, or photography. *Prerequisites:* Fourteen credit hours in Journalism, Junior or Senior status and recommendation of Journalism instructor.

Journalism 486, 487, 488, 489. Journalism Practicum. **(F,S)(1**
Position of high level responsibility on campus newspaper provides continued experience in editing layout, and newspaper management. *Prerequisite:* Journalism 480.

FRENCH

The program offers the opportunity to gain understanding of France and its culture as well as a basi knowledge of the French language. Students offering more than one entrance unit in French and student transferring from other colleges should consult with the instructor before registering for any course ir French.

French 111. Elementary French I. **(F)(3**
Basic French grammar; simple reading, practice in the oral and written language.

French 112. Elementary French II. **(S)(3**
Continuation of French 111. *Prerequisite:* French 111 or equivalent.

French 211. Intermediate French I. **(F)(3**
More detailed study of grammatical structure; study of important literary works; individual collatera reading tailored to the student's interests. *Prerequisite:* French 112 or equivalent.

French 212. Intermediate French II. **(S)(3**
Continuation of French 211. *Prerequisite:* French 211 or equivalent.

French 331. French Civilization. **(on demand)(3**
The economic, social, and cultural development of France, French contributions to world civilization May not count toward fulfillment of the language requirement. **No knowledge of French required.**

French 495. Independent Study. **(F,S)(3**
Intensive independent study of some aspect of French literature or civilization. May be repeated fo credit.

GERMAN

The program offers the opportunity to gain some understanding of Germany and its culture as well as a basic knowledge of the German language. Students offering more than one entrance unit in German and students transferring from other colleges should consult with the instructor before registering fo any course in German.

German 111. Elementary German I. **(F)(3)**
Basic German grammar; simple reading; practice in the oral and written language.

erman 112. Elementary German II. **(S)(3)**
Continuation of German 111. *Prerequisite:* German 111 or equivalent.

erman 211. Intermediate German I. **(F)(3)**
More detailed study of grammatical structure, reading of important literary works; individual collateral reading tailored to the student's interests. *Prerequisite:* German 112 or equivalent.

erman 212. Intermediate German II. **(S)(3)**
Continuation of German 211. *Prerequisite:* German 211 or equivalent.

erman 331. German Civilization. **(on demand)(3)**
The economic, social, and cultural development of Germany; German contributions to world civilization. May not count as part of the language requirements. **No knowledge of German required.**

erman 495. Independent Study. **(F,S)(3)**
Intensive independent study of some aspect of German literature or civilization. May be repeated for credit.

SPANISH

The program offers the opportunity to gain some understanding of Spanish and Latin American ulture as well as a basic knowledge of the Spanish language. Students offering more than one entrance nit in Spanish and students transferring from other colleges should consult with the instructor before egistering for any course in Spanish.

panish 111. Elementary Spanish I. **(F)(3)**
Basic Spanish grammar; simple reading; practice in the oral and written language; cultural background.

panish 112. Elementary Spanish II. **(S)(3)**
Continuation of Spanish 111. *Prerequisite:* Spanish 111 or equivalent.

panish 211. Intermediate Spanish I. **(F)(3)**
More detailed study of grammatical structure; study of important literary works; individual collateral reading tailored to the student's interests. *Prerequisite:* Spanish 112 or equivalent. (Even years only.)

panish 212. Intermediate Spanish II. **(S)(3)**
Continuation of Spanish 211. *Prerequisite:* Spanish 211 or equivalent. (Even years only.)

SPEECH

peech 131. Introduction to Public Speaking. **(F,S)(3)**
Introduction to the principles and process of speech communication through applied oral presentation in a small-group public speaking setting. Discussion and application of basic theories of human communication and role of audience in the communication process.

II. DEPARTMENT OF MUSIC AND FINE ARTS

Betty S. Stroud, *Department Head*
Art — Drama — Music

ART

Union College course offerings in the field of art provide service courses for several curricula and pportunities for exploration and growth in artistic self-expression.

rt 132. Introduction to Art. **(S)(3)**
An introduction to Art outlining basic approaches, principles, techniques and media as well as styles of expression, both past and present.

rt 271. Elementary School Art. **(F)(3)**
A studio course involving many kinds of art projects in media suitable to and practicable for elementary grades.

rt 273. Art History. **(on demand)(3)**
The intensive study of major movements, personalities, and styles of architecture, painting and sculpture of world art.

Art 495. Independent Study. **(F,S)(3**
Independent study or research on approved topics. May be repeated for credit.

DRAMA

Requirements for a Major: A major in Drama consists of the following 30 hours. In addition, a Dram major must complete a reading list which consists of selected plays from the various periods. Th student must write a one-page summary of the action of those plays which have not been covered i any of the courses taken.

		Semester Hou
DRAM 251	Fundamentals of Acting	3
DRAM 331	Scene and Light Design	3
DRAM 365	History of the Theatre to 1642	3
DRAM 366	History of the Theatre since 1642	3
DRAM 451	Directing	3
DRAM 461	Senior Project I	3
DRAM 462	Senior Project II	3
ENGL 372	Shakespeare	3
Two of the following		6
DRAM 280, 380, 480	Theatre Practicums	
DRAM 421	Non-Western Theatre and Drama	
		30

Requirements for a Minor in Drama: A minor in Drama consists of the following 21 hours.

		Semester Hou
DRAM 251	Fundamentals of Acting	3
DRAM 331	Scene and Light Design	3
DRAM 365	History of the Theatre to 1642	3
DRAM 366	History of the Theatre since 1642	3
DRAM 451	Directing	3
Two of the following		6
DRAM 280, 380, 480	Theatre Practicums	
DRAM 421	Non-Western Theatre and Drama	
ENGL 372	Shakespeare	
		21

Drama 131. Introduction to the Theatre. **(F)(3**
A broad overview of the history of theatre and drama as well as an introductory study of acting designing, and directing.

Drama 180, 280, 380, 480. Theatre Practicum. **(F,S)(1**
Actual practical experience in preparing productions for Union College Theatre. Participation ma be in the area of acting or technical work.

Drama 251. Fundamentals of Acting. **(S)(3**
Stanislavski approach to acting. The course will consist of exercises and the analysis and performanc of scenes from contemporary drama and Shakespeare. *Prerequisite:* Drama 131 or permission of th instructor. (Odd years only.)

Drama 331. Scene and Light Design. **(F)(3**
Fundamentals of set and light design for the stage. Practical study of set construction and lightin equipment as well as designing the set and lights for a play selected by the student. *Prerequisite* Drama 131 or permission of the instructor. (Odd years only.)

Drama 365. History of the Theatre to 1642. **(F)(3**
A study of the theatre, drama, and criticism from the Greeks to 1642. *Prerequisite:* Drama 131 o permission of the instructor. (Even years only.)

Drama 366. History of the Theatre since 1642. **(S)(3**
A study of the theatre, drama, and criticism from 1642 to the present. *Prerequisite:* Drama 131 o permission of the instructor. (Even years only.)

rama 421. Non-Western Theatre and Drama. **(on demand)(3)**
A study of the traditional forms of theatre and drama in India, Southeast Asia, China, and Japan. *Prerequisite:* Drama 131 or permission of the instructor.

rama 451. Directing. **(on demand)(3)**
Study of directing techniques and script analysis culminating in the staging of a one-act play. *Prerequisite:* Permission of the instructor.

rama 461. Senior Project in Theatre I. **(on demand)(3)**
Advanced work in the theatre arts which consists of selecting, analyzing, and designing a full-length play for production (or a project of comparable magnitude to be chosen in consultation with the instructor). Open to drama majors only.

rama 462. Senior Project in Theatre II. **(on demand)(3)**
Continuation of Drama 461: will consist of mounting the production of the full-length play (selected, analyzed, and designed in Drama 461) as part of the Union College Theatre season (or completion of alternative project). *Prerequisites:* Successful completion of Drama 461 and permission of the instructor.

rama 495. Independent Study. **(on demand)(3)**
Independent study or research on approved topics.

MUSIC

bjectives:

1. To provide the required curricula for the Bachelor of Arts and the Bachelor of Science in Music, the Bachelor of Music in Church Music, the Bachelor of Music in Music Education.
2. To offer group and private instruction which provides for the development of individual musicianship of the music major, music minor, and general college student.
3. To offer opportunities for participation in music ensembles and music theatre for the music majors, music minors, and general college students.
4. To provide recitals, concerts, and music theatre for the cultural enrichment of the campus and community.

Music Library: The music library, located in the Fine Arts Building, contains records, CD's, tapes, cores, listening and computer assisted music instruction facilities.

DEGREES

Students majoring in music at Union College may pursue the following degree programs:

Bachelor of Music in Music Education
Bachelor of Music in Church Music
Bachelor of Arts in Music
Bachelor of Science in Music
Bachelor of Science in Music and Business

Bachelor of Music in Music Education
(K-12 Certificate)

Candidates for the Bachelor of Music Education will take the following courses (see also Liberal ducation and graduation requirements).

(Part of general studies for music majors; prerequisite to admittance to the major in music education.)

ption I, Instrumental Emphasis *Semester Hours*

USC 161-162	Foundations of Music	8

I. Music Core		*Semester Hour*
MUSC 111-411	Applied Music	14
MUSC 152, 153, 154, 155, 156, 157, 158, 159	Ensembles	0
MUSC 173-174	Piano Class	2
MUSC 261-262	Harmony	6
MUSC 263-264	Ear-Training	2
MUSC 321-322	Music History	6
MUSC 361-362	Form and Analysis	4
MUSC 417	Senior Recital	1
		35

II. Professional Courses		
EDUC 241	Introduction to Education	3
EDUC 242	Early Involvement Internship	3
EDUC 351	Human Growth and Development	3
EDUC 453	Supervised Student Teaching in the Secondary School	12
MUSC 373	Elementary School Music	3
MUSC 375	Instrumental Methods and Materials	2
MUSC 471	Marching Band Techniques	2
PSYH 361	Psychology of Learning	3
SPED 365	Foundations of Education of the Exceptional Child	3
		34

III. Additional Music Requirements		
MUSC 171	String Instruments Class	1
MUSC 172	Woodwind Instruments Class	1
MUSC 175	Brass Instruments Class	1
MUSC 176	Percussion Instruments Class	1
MUSC 365	Arranging	2
MUSC 474	Instrumental Conducting	2
	Total	77

Option II, Vocal Emphasis

MUSC 161-162	Foundations of Music	8

I. Music Core		
MUSC 111-411	Applied Music	14
MUSC 152, 153, MUSC 154, 155, MUSC 156, 157, MUSC 158, 159	Ensembles	0
MUSC 173-174	Piano Class	
or 177-178	Voice Class	2
MUSC 261-262	Harmony	6
MUSC 263-264	Ear-Training	2
MUSC 321-322	Music History	6
MUSC 361-362	Form and Analysis	3
MUSC 417	Senior Recital	1
MUSC 475	Pedagogy	2
		37

II. Professional Courses		
EDUC 241	Introduction to Education	3
EDUC 242	Early Involvement Internship	3
EDUC 351	Human Growth and Development	3
EDUC 453	Supervised Student Teaching in the Secondary School	12
MUSC 373	Elementary School Music	3
MUSC 374	Vocal Methods for the Secondary School	3
PSYH 361	Psychology of Learning	3
SPED 201	Survey of Exceptionalities	3
		33

II. Additional Music Requirements

MUSC 365	Arranging	2
MUSC 473	Choral Conducting	2
		4
	Total	74
Keyboard majors:	Private Voice	2
	Total	76

Option III, Instrumental Endorsement

Completion of Option II plus an additional twelve hours organized as follows: choice of any three of the four instrumental techniques classes, 3 hours; additional applied music study in one of those areas (3 semesters), 3 hours; Instrumental Conducting, 2 hours; and four additional semesters of participation in an instrumental ensemble (for a total of six semesters), 4 hours.

Option IV, Vocal Endorsement

Completion of Option I plus an additional twelve hours organized as follows: Pedagogy — Vocal, 2 hours; Choral Conducting, 2 hours; Voice Class, 2 hours; additional voice study (2 semesters), 2 hours; and four additional semesters of participation in a vocal ensemble (for a total of six semesters), 1-4 hours.

Bachelor of Music in Church Music

Candidates for the Bachelor of Music in Church Music will take the following courses (see also Liberal Education and graduation requirements).

I. Music Core

		Semester Hours
MUSC 111-411	Applied Music	14
MUSC 152, 153, 154, 155, 156, 157, 158, 159	Ensembles	0
MUSC 161-162	Foundations of Music	8
MUSC 173-174	Piano Class	
or 177-178	Voice Class	2
MUSC 261-262	Harmony	6
MUSC 263-264	Ear-Training	2
MUSC 321-322	Music History	6
MUSC 361-362	Form and Analysis	4
MUSC 417	Senior Recital	1
		43

II. Church Music and Professional Courses

MUSC 231	Handbell Methods	1
MUSC 333	Church Music Administration	2
MUSC 335	Hymnology	2
MUSC 337	Church Organs	2
MUSC 373	Elementary School Music	3
MUSC 374	Vocal Methods for the Secondary School	3
MUSC 436	History and Philosophy of Church Music	2
MUSC 437	Church Music Practicum	4
		19

III. Additional Music Requirements

MUSC 171, 172, 175	Instrumental Techniques (choose 2)	2
MUSC 462	Counterpoint	2
MUSC 473	Choral Conducting	2
MUSC 474	Instrumental Conducting	2
	Private Piano or Organ (for voice major) or Private Voice (for instrumental major)	2
		10

IV. Courses in Religion

RLGN 111	Old Testament History, Literature and Interpretation	3
RLGN 112	New Testament History, Literature and Interpretation	3
RLGN 354	Religion in the United States	3
		9
	Total	82

Bachelor of Arts and Bachelor of Science in Music

Candidates for the Bachelor of Arts or Bachelor of Science Degree in Music will take the following music courses either from Option I or Option II (see also Liberal Education and graduation requirements):

Option I. Academic Emphasis

		Semester Hour
MUSC 111-212	Applied Music*	8
MUSC 161-162	Foundations of Music	8
MUSC 261-262	Harmony	6
MUSC 263-264	Ear-Training	2
MUSC 321-322	Music History	6
MUSC 361-362	Form and Analysis	4
MUSC 421-422	Music History Seminar	6
	Ensemble	0
		40

Option II. Applied Emphasis

MUSC 111-412	Applied Music	16
MUSC 161-162	Foundations of Music	8
MUSC 261-262	Harmony	6
MUSC 263-264	Ear-Training	2
MUSC 321-322	Music History	6
MUSC 361-362	Form and Analysis	4
	Ensemble	0
MUSC 417	Senior Recital	0 or 1
		42 or 43

*The 212 level must be reached in the student's major applied area.

Bachelor of Science in Music and Business

Candidates for the Degree of Bachelor of Science in Music and Business will take the following courses (see also Liberal Education and graduation requirements):

I. Business Core		*Semester Hours*
ACTG 271-272	Principles of Accounting I and II	6
BUAD 310	The Legal Environment of Business	3
BUAD 351	Principles of Finance	3
BUAD 352	Principles of Management	3
COMP 211	Introduction to Business Information Systems	3
ECON 203	Principles of Macroeconomics	3
ECON 204	Principles of Microeconomics	3
MKTG 321	Principles of Marketing	3
		27

II. Music Requirements		
MUSC 101-202	Applied Music	4
MUSC 161-162	Foundations of Music	8
MUSC 171, 172, 173, 175, 176	String, Woodwind, Piano, Brass and Percussion classes (choose any 3)	3
MUSC 261-262	Harmony	6
MUSC 322	Music History	3
	Ensemble	4
		28

III. Additional Business Requirements		
MKTG 272	Personal Selling	3
OFAD 302	Business Communications	3
	Elective from the Department of Business (300 level or above)	3
	Field Placement	3-10
		12-19

Minor in Music

Twenty-one semester hours, including Music 161-162; three semester hours selected from either Music 321 or 322; two semester hours of music electives; two years of ensemble; and completion of the 202-level of course numbering in one field of applied music, or eight hours of applied music arranged differently with the consent of the department.

DEPARTMENTAL REQUIREMENTS

Specific requirements for music majors and minors are listed in the Music Department Handbook. Students will be held responsible for requirements in the Handbook. More detailed information is given for the following:

1. Entrance Test: All music majors and minors entering the Department for the first time shall take a placement test in theory and functional piano. The test is for placement only, and in no way affects the entrance to music study.
2. Keyboard Proficiency: All candidates for the Bachelor of Music in Music Education and the Bachelor of Music in Church Music must pass the Keyboard Proficiency Test. For details, see the Music Department Student Handbook.
3. Ensemble Requirements: All music majors are required to participate in a minimum of seven semesters of one ensemble within their major performance area. All music minors are required to participate in a minimum of four semesters in an ensemble within their major performance area.
4. Recital and Concert Attendance: Attendance at departmental recitals and concerts is required of all music majors and minors during each semester of applied music study.
5. Recital Requirements: Candidates for the Bachelor of Music degree and candidates for the Bachelor of Arts or Bachelor of Science degree in Music (Applied Emphasis) must present a full recital on

their major instrument or in voice. Candidates for the Bachelor of Arts or Bachelor of Science in Music (Academic Emphasis) may be invited to present a recital by the music faculty.

APPLIED MUSIC—SECONDARY LEVEL

These courses are designed for any music major taking lessons on a secondary instrument, for students enrolled in music and business, and elective credit for general college students.

Music 101-102. Applied Music **(F,S)(1-2)**
Freshman level secondary applied music study.

Music 201-202. Applied Music. **(F,S)(1-2)**
Sophomore level secondary applied music study.

Music 301-302. Applied Music. **(F,S)(1-2)**
Junior level secondary applied music study.

Music 401-402. Applied Music. **(F,S)(1-2)**
Senior level secondary applied music study.

APPLIED MUSIC—MAJOR LEVEL

These courses are designed for students seeking a Bachelor of Arts or a Bachelor of Science degree with a music major, applied or academic emphasis, and for the Bachelor of Music in Church Music or Music Education.

Music 111-112. Applied Music. **(F,S)(1-2)**
Freshman major or minor level applied music study.

Music 211-212. Applied Music. **(F,S)(1-2)**
Sophomore major or minor level applied music study.

Music 311-312. Applied Music. **(F,S)(1-2)**
Junior major level applied music study.

Music 317. Junior Recital. **(F,S)(0-1)**

Music 411-412. Applied Music. **(F,S)(1-2)**
Senior major level applied music study.

Music 415-416. Applied Field Literature. **(on demand)(2)**
A study of the literature for the student's major instrument, and related instruments where appropriate, with attention to stylistic characteristics and ornamentation.

Music 417. Senior Recital. **(F,S)(0-1)**

Music 418-419. Sight-Reading and Accompanying. **(on demand)(1)**
Proficiency in reading the various clefs, vocal scores; and accompaniments, with emphasis on the techniques of sensitive accompanying. Keyboard majors and selected minors only.

HISTORY AND APPRECIATION

Music 121. Introduction to Music. **(F)(3)**
An historical approach to music appreciation focusing on period and style. Extensive listening to music literature. Not open to music majors or minors.

Music 122. Introduction to the History of American Popular Music. **(S)(3)**
An historical approach involving the study of styles and personalities beginning with the origins of jazz and ending with current trends and concepts. Open to all students.

Music 321, 322. Music History. **(F,S)(3)**
A study of representative music both written and recorded and readings coordinating and integrating music skills. (321) Antiquity through 1750. (322) Classic period to the present. *Prerequisite:* Music 162.

Music 421-422. Music History Seminar. **(on demand)(3)**
Intensive study of a selected period or genre. Major paper required. *Prerequisites:* Music 321, 322.

CHURCH MUSIC

Music 231. Handbell Methods. **(F)(1)**
A study of the techniques, methods, materials, and repertory of English handbell ringing. *Prerequisite:* Music 162 or permission of instructor.

Music 333. Church Music Administration. **(F)(2)**
The role of the minister of music as related to the graded adult, youth, and children's choir programs, budget and calendar planning, the congregation, the multiple staff church, and the denomination.

Music 335. Hymnology. **(S)(2)**
The study and analysis of the hymns of the church, their sources, development, and usage in contemporary service.

Music 337. Church Organs. **(F)(2)**
The study of the history of the instrument, types of organs, basic upkeep, techniques, and service repertoire.

Music 436. History and Philosophy of Church Music. **(S)(2)**
A detailed, historical study of music within the church relating to its origin and development, with emphasis upon liturgies and historic philosophical positions of the church on music.

Music 437. Church Music Practicum. **(on demand)(4)**
One semester or one summer of supervised field work in an approved church. *Prerequisite:* Consent of the Music faculty.

ENSEMBLES

Music 152. Union College Singers. **(F,S)(0-1)**
Open by audition only; performs in chapel, Christmas concert, Spring concert, graduation, tours, and festivals. Limited to forty-nine students; four rehearsals per week. May be repeated for credit.

Music 153. Stage Band. **(F,S)(0-1)**
Open by audition only. A jazz-oriented ensemble of appropriate instrumentation limited to twenty students. One rehearsal per week. May be repeated for credit.

Music 154. Symphonic/Pep Band. **(F,S)(0-1)**
Open by audition only. Symphonic Band rehearses and performs a variety of music literature for the concert hall. Pep Band is a performance group which offers support and entertainment at home athletic events. Three rehearsals per week. May be repeated for credit.

Music 155. Brass Chamber Ensemble. **(on demand)(0-1)**
Open by audition only. Size and make-up will vary with the needs and interests of the students enrolled. One rehearsal per week. May be repeated for credit.

Music 156. Collegium Musicum. **(on demand)(0-1)**
Open to interested students. A performance group intended to give the student acquaintance with less frequently performed literature. One rehearsal per week. May be repeated for credit.

Music 157. Woodwind Chamber Ensembles. **(on demand)(0-1)**
Open by audition only. Size and make-up will vary with the needs and interests of the students enrolled. One rehearsal per week. May be repeated for credit.

Music 158. String Chamber Ensemble. **(on demand)(0-1)**
Open by audition only. Size and make-up will vary with the needs and interests of the students enrolled. One rehearsal per week. May be repeated for credit.

Music 159. Union College Chamber Singers. **(F,S)(0-1)**
A select vocal ensemble composed of a small number of singers whose repertory consists of vocal chamber music. Open by audition. May be repeated for credit.

THEORY

Music 161-162. Foundations of Music. **(F,S)(4)**
A combined course in the areas of music theory, history, and literature.

Music 261-262. Harmony. **(F,S)(3)**
Continuation of Music 161-162 in the area of part-writing and analysis. Advanced chromatic harmony of the middle Romantic period. *Prerequisite:* Music 162.

Music 263-264. Ear-Training. **(F,S)(1)**
Sight-singing, ear-training, and dictation to be taken concurrently with Music 261-262. Two periods per week. *Prerequisite:* Music 162.

Music 361-362. Form and Analysis. **(F,S)(2)**
The development of musical forms from small units to large. Study of large scale analytic techniques including those necessary for late 19th and 20th Century music. *Prerequisite:* Music 262.

Music 365. Arranging. **(S)(2**
Basic techniques of orchestration and arranging. *Prerequisite:* Music 162.

Music 461-462. Counterpoint. **(461 on demand, 462 F, odd years)(2**
The vocal counterpoint of Palestrina and the instrumental counterpoint of Bach. *Prerequisite:* Musi 162.

Music 465. Theory Seminar. **(on demand)(3**
An advanced course in music theory, including a study of contemporary practices. *Prerequisite:* Musi 362 and permission of the instructor.

MUSIC EDUCATION

Music 171. String Instruments Class. **(F)(1**
Class instruction in strings. (Even years only.)

Music 172. Woodwind Instruments Class. **(S)(1**
Class instruction in woodwinds. (Odd years only.)

Music 173-174. Piano Class. **(F,S)(1**
Class instruction in piano.

Music 175. Brass Instruments Class. **(F)(1**
Class instruction in brass. (Odd years only.)

Music 176. Percussion Instruments Class. **(S)(1**
Class instruction in percussion. (Even years only.)

Music 177-178. Voice Class. **(F,S)(1**
Class study for students who are not prepared to study at the level of private applied voice.

Music 373. Elementary School Music. **(S)(3**
Teaching vocal music in the elementary school: procedures, techniques, evaluation, materials, anc equipment. Includes directed observation of and participation in public school classroom activities.

Music 374. Vocal Methods for the Secondary School. **(F)(3**
Materials, rehearsal techniques, and vocal health for the secondary school student. Includes directec observation of and participation in public school classroom activities. *Prerequisite:* Junior standing.

Music 375. Instrumental Methods and Materials. **(S)(2**
Teaching Instrumental Music in the Public Schools: Procedures, techniques, curriculum, scheduling administration, evaluation, materials, equipment, and community relations. Includes directed observation of and participation in public school classroom activities. *Prerequisites:* Music 171, 172, 175, 176, and Junior standing.

Music 471. Marching Band Techniques. **(F)(2)**
Functions, organization, and direction of a school marching band program. Includes directed observation and participation in public school classroom activities. *Prerequisite:* Junior standing.

Music 473. Choral Conducting. **(F)(2)**
Techniques and literature. (Odd years only.)

Music 474. Instrumental Conducting. **(F)(2)**
Techniques and literature. (Even years only.)

Music 475. Pedagogy. **(on demand)(2)**
Techniques and principles of private and class instruction, emphasis on recommended materials.

INDEPENDENT STUDY

Music 495. Independent Study. **(F,S)(2-3)**
Independent study and/or research on approved topics. *Prerequisite:* Permission of the student's major professor. May be repeated for credit.

III. DEPARTMENT OF RELIGION AND PHILOSOPHY

L. Edward Phillips, *Department Head*
Christian Education — Religion — Philosophy — Philosophy/Religion

Courses in this Department are designed to acquaint students with the Judaeo-Christian heritage and the other great religious traditions and with the disciplines of human thought; to deepen their awareness of themselves and of the human community; to cultivate their powers of critical examination of the meaning and direction of human existence.

All religion and philosophy majors and minors are **strongly** encouraged to undertake the study of a foreign language in connection with their program. For those intending to go to graduate school, the completion of 12 semester hours of a single modern foreign language leading to a Bachelor of Arts Degree is recommended. In addition to this, for those intending to go to a divinity school, the completion of 6 hours of a biblical language is recommended.

Studies in religion are especially recommended for students of art, history, and literature, and for students preparing for Christian vocations.

Studies in philosophy are especially recommended for pre-professional education for such vocations as the Christian ministry, college teaching, law, journalism, creative writing, and art, as well as for students of history, literature, and the sciences.

CHRISTIAN EDUCATION

In recognition of increasing demand for trained men and women as full-time Christian workers in the ministry of the local church, to serve in the capacities of pastor's assistant, director of youth work, or Director of Christian Education, a specific four-year course of study has been arranged, using the facilities of various departments. It is designed to meet the basic needs of students who wish to go directly into church positions without graduate work.

The thirty-hour major must include the following courses: Philosophy 261, Physical Education 321, Religion 111, 112, 356, 361, and Speech 131.

Nine additional hours in religion courses numbered above 300 complete the thirty-hour major. Psychology 402 may be substituted for one of these courses. Additional courses in music, drama and Appalachian Studies are recommended to complete the major. A second major or minor in drama or music is strongly suggested.

RELIGION

Requirements for a Major: Thirty-three semester hours. The thirty-three hour major must include the following courses: Philosophy 151 or 152, Philosophy 261, Religion 111, 112, 252, 356, and 412 or 479. Twelve additional elective hours complete the major, at least nine of which must be in courses numbered above 300. Philosophy 371 may be substituted for one of these courses.

Requirements for a Minor: Twenty-one semester hours, at least nine of which must be in courses numbered above 300.

Religion 111. Old Testament History, Literature, and Interpretation. **(F,S)(3)**
The history of Israel from the earliest times to the Maccabean Age. Historical and literary criticism and religious significance of the emergence of Judaism.

Religion 112. New Testament History, Literature, and Interpretation. **(F,S)(3)**
Attention to author, date, origin, historical and religious significance.

Religion 131. World Religions. **(S)(3)**
A descriptive account of the faith and practices of present-day world religions, with emphasis on Judaism, Hinduism, Buddhism, Confucianism, and Islam.

Religion 201-202. Elementary New Testament Greek. **(F,S)(3)**
A semi-inductive approach to koine Greek recommended for persons interested in religion as well as for religion majors. (Odd years only.)

Religion 252. Religious Foundations of Western Civilization. **(F)(3)**
This course will introduce students to the theological, social, and political development of Christianity and Judaism from the first century to the high Middle Ages, emphasizing the relationship between religious thought and society. (Even years only.)

Religion 301-302. Elementary Old Testament Hebrew. **(on demand)(3)**
A study of sufficient grammar to read simple Old Testament passages, recommended for persons interested in religion as well as for religion majors.

Religion 331. The Life and Teachings of Jesus. **(F)(3)**
The world into which Jesus was born and an interpretation of his messianic consciousness, personality, activities, and teachings. *Prerequisite:* Religion 112 recommended. (Even years only.)

Religion 341. The Life and Teachings of Paul. **(S)(3)**
The world of Paul, his life, teachings, and significance, using his letters as the primary source. *Prerequisite:* Religion 112 recommended. (Even years only.)

Religion 352. Church History from the Reformation to the Twentieth Century. **(S)(3)**
Church History on the European continent and in England from the sixteenth century through the nineteenth century. Attention will be given to the main Protestant and Catholic traditions, with special emphasis on the Wesleyan movement. (Even years only.)

Religion 354. Religion in the United States. **(F)(3)**
This course provides students with a phenomenological and historical description of the varieties of religious practice in the United States. (Odd years only.)

Religion 356. Contemporary Christian Thought. **(S)(3)**
Examination of contemporary understandings of the Christian faith, with emphasis on the nature of God and humanity; the significance of Christ and the church; the relation of religion to morality; the meaning of Creation and Redemption; and the interpretation of Human Destiny. *Prerequisite:* Religion 112. (Odd years only.)

Religion 361. Education in the Local Church. **(S)(3)**
Theory and practice of Christian Education with special attention on planning a program in the local church. (Even years only.)

Religion 412. Worship and Sacrament. **(on demand)(3)**
The development of worship and sacrament in Christianity from the Bible to the present. Attention will be given to the diversity of practice in contemporary Western churches. *Prerequisite:* Religion 112 or permission of instructor.

Religion 479. Seminar in Religion. **(S)(3)**
Intensive study of a special subject with oral and written reports. Possible topics include The Fourth Gospel, Apocalyptic Literature, Pauline Theology, Wisdom Literature, The Apostolic Period. *Prerequisites:* Advanced standing and permission of the instructor. (Odd years only.)

Religion 495. Independent Study. **(F,S)(3)**
Independent study or research on approved topics. May be repeated for credit.

PHILOSOPHY

The word "philosophy" means, literally, "the love of wisdom." Philosophy encourages critical thinking and engages in systematic inquiry into questions of the meaning of life, the nature of reality, truth and justification, knowledge and belief, religion and science, personal morality and social justice.

In addition to providing any student with an opportunity for developing analytical skills and clarifying personal beliefs on many issues, a minor in philosophy can be an effective part of a pre-professional course of studies for the law, the ministry, business, medicine, journalism, creative writing, public service or politics. Indeed, students in philosophy routinely score highest among all departments on professional and graduate school tests. Although traditionally considered the most "abstract" and "impractical" of all academic disciplines, philosophers today are found working in hospitals, businesses, non-profit corporations and government as well as in college teaching.

Requirements for a Minor. Twenty-one semester hours.

Philosophy 151. Introduction to Philosophy: Knowledge and Reality. **(F)(3)**
An introduction to the aims, methods and history of philosophy with special attention to questions related to the nature of reality, skepticism and certainty, knowledge and belief, reason and experience, truth and justification, philosophy of mind, the existence of God, science and religion. Emphasis is placed upon helping students to develop skills in critical thinking.

Philosophy 152. Introduction to Philosophy: Ethics and Society. **(S)(3)**
An introduction to the aims, methods and history of philosophy with special attention to questions related to the nature of moral value, skepticism and relativism, the individual and society, concepts of justice, philosophy of life, contemporary moral issues. Emphasis is placed upon helping students to develop skills in critical thinking.

hilosophy 261. Philosophy of Religion. **(F)(3)**
Examination of philosophical issues related to religious faith such as concepts of religion and of God, arguments for and against the existence of God, the problem of evil, religious language, mysticism and religious experience, faith and reason, religion and science, religion and morality, religion and politics, revelation, miracles, life after death, relativism and pluralism, particularism and universalism. Course will include traditional and contemporary approaches. (Even years only.) *Prerequisite:* One course in philosophy and one course in religion or permission of the instructor.

hilosophy 320. Logic. **(S)(3)**
A study of formal and informal methods of rational argumentation including the uses of language, definition, logical fallacies, traditional syllogistic logic, modern propositional logic, first order predicate logic. Course will stress development of skills for the construction and criticism of actual arguments. (Odd years only.) *Prerequisite:* One course in philosophy or permission of the instructor.

hilosophy 340. Ethics. **(F)(3)**
A study of ethical theories and principles, the nature of moral discourse, subjectivism and relativism, contemporary moral problems. Emphasis is placed upon helping students to develop skills for relating theoretical issues to concrete moral decision-making. Course may be listed under an appropriate subtitle such as: Biomedical Ethics, Environmental Ethics, Religion and Morality, etc., May be repeated for credit when listed under a different subtitle. (Odd years only.) *Prerequisite:* One course in philosophy or permission of the instructor.

hilosophy 360. Knowledge and Reality. **(S)(3)**
Selected topics in epistemology and metaphysics. Course may be listed under an appropriate subtitle such as: philosophy of science, philosophy of mind, philosophy of language, reason and relativism, religion and science, etc. May be repeated for credit when listed under a different subtitle. (Even years only.) *Prerequisite:* One course in philosophy or permission of the instructor.

hilosophy 415. Analytic Philosophy. **(F)(3)**
Examination of issues and methods related to "the linguistic turn" in philosophy through the study of representative philosophers such as Moore, Russell, Wittgenstein and movements such as logical positivism and ordinary language philosophy. Course will consider distinctive contributions from the American philosophical tradition of pragmatism from Peirce to Rorty. (Odd years only.) *Prerequisite:* At least one course in philosophy. Permission of the instructor is highly recommended.

hilosophy 417. Continental Philosophy. **(F)(3)**
Examination of issues and methods in recent continental philosophy through the study of representative philosophers such as Kierkegaard, Nietzsche, Husserl, Heidegger, Tillich, Sartre, Camus, Gadamer, Habermas, Levinas, Foucault, Derrida and movements such as existentialism, phenomenology, hermeneutics, critical theory and deconstruction. Course will consider parallels between analytic and continental approaches to philosophy. (Even years only.) *Prerequisite:* At least one course in philosophy. Permission of the instructor is highly recommended.

hilosophy 479. Seminar in Philosophy. **(on demand)(3)**
Intensive study of a special topic, historical period or philosopher. May be repeated for credit. *Prerequisite:* Permission of the instructor.

hilosophy 495. Independent Study. **(on demand)(3)**
Independent study or research on approved topics. May be repeated for credit. *Prerequisite:* Permission of the instructor.

PHILOSOPHY/RELIGION

Requirements for a Major. Thirty semester hours.

The Philosophy/Religion major is recommended as an especially strong course of studies for students seeking a broad background in the Liberal Arts, interdisciplinary studies in the Humanities or a specialization in the traditions of Western or Comparative History of Ideas. It is a useful course of studies for many pre-professional programs in such areas as law, business, politics, public administration and public service, teaching and religions vocations. It provides a solid background for graduate studies in philosophy, religion or other related disciplines.

The major consists of thirty-six hours including the following courses:

Religion 111. Old Testament History, Literature and Interpretation

OR

Religion 112. New Testament History, Literature and Interpretation

Religion 131. World Religions

Religion 356. Contemporary Christian Thought

Philosophy 151. Introduction to Philosophy: Knowledge and Reality

Philosophy 152. Introduction to Philosophy: Ethics and Society

Philosophy 261. Philosophy of Religion

Philosophy 320. Logic

Philosophy 340. Ethics

The remaining course(s) may be selected from courses in Religion or in Philosophy at the 300 level or above. In addition to the basic 30 hours, Religion 479 and Philosophy 479 are strongly recommended.

DIVISION OF NATURAL SCIENCES

William F. Henshaw, *Chairperson*
Biology — Chemistry — Computer Science — Environmental Studies
General Science — Mathematics — Physics — Science Education

BIOLOGY

Requirements for a Major: Thirty semester hours in biology including:

		Semester Hours
BIOL 111	General Biology	4
BIOL 232	General Zoology	4
BIOL 233	General Botany	4
BIOL 361	Genetics	4
BIOL 441	Ecology	4
BIOL 431	Cell Biology	4
OR		
CHEM 421	Biochemistry	3
BIOLOGY ELECTIVES	(300 or 400 level)	7

Science Cognates include Chemistry 111, 112, 131, 132; General Science 471; and one of the following groups of Physics 111, 112, 113 OR Physics 211, 212, 213. Those students seeking secondary certification must complete two semesters of physics laboratory. Biology 331 and 334 are highly recommended as electives for those seeking secondary certification.

Requirements for a Minor: Twenty-four semester hours in Biology are required. Biology 111, 232 and 233 must be included. Students seeking secondary certification must complete either the area of concentration in science or major in mathematics, chemistry or physics.

Biology 109. Elements of Biology. **(F,S,Sum)(3)**
An introduction to biology from the perspective of the non-science student. The impact of biology on society and the relevance of biology to our individual lives are stressed. The nature of science as well as its limitations are an important part of the course. Topics surveyed include ecology, classical and modern genetics, evolution, biological energetics, and the organization of living systems.

Biology 110. Elements of Biology Laboratory. **(F,S)(1)**
Required laboratory course to accompany Biology 109. No credit will be given for Biology 110 without simultaneous or prior successful completion of Biology 109.

Biology 111. General Biology. **(F)(4)**
A course emphasizing general concepts of modern biology for majors and non-majors. Topics surveyed include cell biology, bioenergetics, molecular and Medelian genetics, reproduction, development, evolution and ecology. Human relevance is stressed. Laboratory work is included. This course is a prerequisite to all other courses in biology. *Prerequisites:* High school biology and chemistry strongly recommended; ACT Natural Science score of 25 or higher recommended for freshmen.

Biology 151. Medical Terminology. **(F)(2)**
The study of the specialized terminology of medical science. Recommended for pre-professional students, biology majors, allied health students, and students in other health-related fields. Those seeking secondary certification cannot count this course toward certification requirements. This course does not meet the biological science requirement for teacher education. (Odd years only.)

Biology 232. General Zoology. **(F)(4)**
A survey of the animal kingdom with emphasis on diversity, evolution, and environmental relationships. Additional topics include energy metabolism, taxonomy, reproduction, population phenomena, behavior and sociology. *Prerequisite:* Biology 111.

Biology 233. General Botany. **(S)(4)**
A survey of the organisms which possess cells walls including: Protoctista, Fungi, and especially the Plants. Emphasis is given to ecological and economic importances, morphology, and evolutionary relationships. The course also involves a brief review of major biological concepts such as cell structure, cell energetics, and classical and molecular genetics. *Prerequisite:* Biology 111.

Biology 321. Field Biology. **(on demand)(3)**
Field investigations including observation, collection, and identification of local fauna and flora are offered under discrete course headings including: Limnology, Ornithology, Entomology, Local Flora, Dendrology, and Mycology. Pertinent field data are collected and analyzed appropriately. Two one-hour lectures and one three-hour laboratory session per week.

Biology 330. Anatomy and Histology. **(F)(4)**
A study of the tissues, organs, and organ systems of vertebrates with emphasis on the human body in health-related sciences. (Odd years only.)

Biology 331. Human Physiology. **(S)(4)**
A study of the functioning of the human organ systems with normal and clinical considerations. *Prerequisites:* Chemistry 112 and 132. (Odd years only.)

Biology 334. Microbiology. **(S)(4)**
An introduction to the classification, morphology, physiology, and genetics of the bacteria, fungi, viruses, and micrometazoans, as well as their roles in nature, health, and industry. Laboratory work stresses techniques for the culture and identification of microorganisms. A portion of the course is devoted to immunology. *Prerequisites:* Biology 361. (Even years only.)

Biology 361. Genetics. **(S)(4)**
An introduction to the principles of inheritance from both classical and molecular perspectives. *Prerequisites:* Biology 232, 233, and Mathematics 131.

Biology 431. Cell Biology. **(F)(3)**
An indepth survey of the structure and function of a wide range of living cells with consideration of biochemical and biophysical bases of this structure and function. Certain characteristics of viruses are also considered. *Prerequisite:* Biology 361. Prior completion of Biology 334 is desirable. (Even years only.)

Biology 436. Evolution. **(S)(3)**
An introduction to the theory and processes of evolutionary biology. Topics include the historical development of the discipline, the principle mechanisms by which it occurs, tempo and mode of speciation, both biological and geological sources of evidence, and the impact of evolutionary thought on biology and society. *Prerequisite:* Biology 361. (Odd years only.)

Biology 441. Ecology. **(F)(4)**
A study of the relationships between organisms and their abiotic and biotic environment including biogeochemical cycles, population dynamics, diversity, communities, and pollution of terrestrial and aquatic ecosystems. Completion of Biology 361 is recommended.

CHEMISTRY

Requirements for a Major: Thirty semester hours of Chemistry including Chemistry 111, 112, 131, 132, 212, 311, 312, 314 and 332. Science cognates consist of Physics 211, 212, 213, 214, 331, Mathematics 241, 242, and General Science 471.

Requirements for a Minor: Twenty-one semester hours including Chemistry 111, 112, 131, 132, 311 and either 212 or 411.

Chemistry 101. Introductory General Chemistry. **(Sum)(4)**
A study of the general principles including laws of definite and multiple proportion, stoichiometry, gases, electronic structure, chemical bonding, periodic relationships, chemical equilibrium and acids/bases. Laboratory activities included. Intended for students interested in a one-semester course in chemistry and recommended for students seeking careers in some allied health fields. *Prerequisite:* A working knowledge of algebra such as is acquired in two years of high school algebra.

Chemistry 111-112. General Chemistry. **(F,S)(3)**
A systematic study of the fundamentals and applications of the experimental and theoretical laws of chemistry. Major topics include nomenclature, stoichiometry, chemical thermodynamics, equilibrium, acid-base reactions, atomic and molecular theory and structure, chemical kinetics and nuclear chemistry. Examples and problems are drawn from all areas of chemistry. Concurrent registration in General Chemistry Laboratory, Chemistry 131-132, is highly recommended for all students. *Prerequisite:* A working knowledge of algebra such as is acquired in two years of high school algebra, or Mathematics 131 (which may be taken concurrently), or a composite ACT score of 21.

Chemistry 131-132. General Chemistry Laboratory. **(F,S)(1)**
Laboratory experiments in general chemistry that illustrate basic principles and develop laboratory skills. Experiments are coordinated with the General Chemistry topics. Inorganic qualitative analysis is included in Chemistry 132. Three hours of laboratory per week. Concurrent registration or previous completion of Chemistry 111-112 is required. No credit may be received for Chemistry Laboratory 131-132 without the simultaneous or prior completion of the corresponding lecture courses Chemistry 111-112.

Chemistry 212. Analytical Chemistry. **(F)(4)**
A study of important volumetric and gravimetric analyses presented from a modern theoretical standpoint. Also an introduction to the study of advanced methods of analysis including some newer instrumentation techniques. *Prerequisites:* Chemistry 112 and 132.

Chemistry 311-312. Organic Chemistry. **(F,S)(4)**
A course in the chemistry of organic compounds. Unitized laboratory work is designed to illustrate the basic principles of organic chemistry. *Prerequisites:* Chemistry 112 and 132.

Chemistry 314. Physical Chemistry Laboratory. **(S)(1)**
A laboratory course designed to accompany Chemistry 332 and Physics 331.

Chemistry 332. Physical Chemistry. **(S)(3)**
A study of atomic structures and chemical bonding in terms of modern quantum theory. Topics include molecular spectra, and chemical kinetics. *Prerequisites:* Mathematics 242 and Physics 212. (Odd years only.)

Chemistry 411. Inorganic Chemistry. **(S)(4)**
A systematic study of the structure, properties and reactions of non-carbon elements, with emphasis on the non-metals and the transition metals. Topics include atomic-molecular structure and bonding, physical methods of investigation, organometallic chemistry and bioinorganic chemistry. *Prerequisite:* Chemistry 312. (Odd years only.)

Chemistry 421. Biochemistry. **(S)(3)**
Study of chemistry, energetics and metabolism of biomolecules, such as, carbohydrates, proteins, lipids, nucleic acids, enzymes and vitamins with reference to living systems. *Prerequisite:* Chemistry 311. (Even years only).

COMPUTER SCIENCE

Requirements for a Minor: Twenty-one semester hours consisting of Mathematics 241, Computer Information Systems 121, 221, 250, 310, 315 and an additional Computer Information Systems course numbered 200 or above. Course descriptions are listed under Computer Information Systems.

ENVIRONMENTAL STUDIES

Requirements for a Minor: Twenty-four hours, to be chosen by the student, the student's major advisor, and an advisor from Environmental Studies. Courses are also listed under the various departments to which they relate. The required core: Environmental Studies 101 and 313, Biology 109 or 111, and Economics 251. The remainder of the courses are to be chosen from other Environmental Studies courses or the following recommended electives: Biology 321, 441; Geography 241; Philosophy 371; Sociology 311, 371, 421 and certain experimental courses.

Environmental Studies 101. Man and the Environment. **(F)(3)**
A multi-disciplinary course in which basic ecological principles are developed and used to show human impact on natural eco-systems. Topics include endangered species, impact of population growth, land use and the management problems, food production and demands.

Environmental Studies 110. Physical Systems of the Environment. **(S)(4)**
A study of the physical environment as the home of man. Emphasis on distribution and interaction of environmental variables (weather, landforms, vegetation, soils, and climate). This course may be used to fulfill the physical science requirement for students seeking teacher certification. Laboratory activities included.

Environmental Studies 313. Environmental Policy. **(F)(3)**
A study of the decision-making processes and the consequences of alternative courses of action on environmental quality. Analyzes the impact of public opinion, the various branches of government and pressure groups on environmental/energy policies at the federal and state levels. *Prerequisites:* Environmental Studies 101 and an introduction political science course, or permission of instructor. (Odd years only.)

Environmental Studies 350. Our Geologic Environment. **(S)(4)**
Significance of regional and local geological features and processes in land use planning. Use of geological information to reduce conflicts in utilization of mineral and water resources and damage due to natural hazards. *Prerequisite:* Environmental Studies 110. (Odd years only.)

GENERAL SCIENCE

Neither a major nor a minor is offered.

General Science 101. Physical Science. **(S)(4)**
This course will present an overview of Physical Science to students with little or no scientific background.

General Science 124. Introduction to Physical Therapy. **(S)(2)**
A general orientation to the historical background, philosophy and professional ethics of physical therapy, interprofessional relationships between members of the health care team; concepts of health and disease; overview of the total medical spectrum, medical technology, modalities used in physical therapy, and orientation to clinical service departments and their administration.

General Science 471. Science Seminar. **(S)(1)**
A lecture/discussion of selected topics of interest, lead by faculty members of the Division of Natural Sciences, invited speakers, and student participants. May be repeated once; a student can earn a maximum of two credit hours through this course. All natural science majors must take this course at least once. *Prerequisite:* Natural science major with Junior or Senior standing, or permission of the instructor.

MATHEMATICS

Requirements for a Major: Thirty semester hours numbered 241 and above including Mathematics 241, 242, and two of the following courses: Mathematics 333, 402, 403. Computer Information Systems 121, Physics 211, 212, 213, and 214 are also required. Those seeking secondary certification must include Mathematics 301 and 333.

Requirements for a Minor: Twenty-one semester hours numbered 241 and above to include Mathematics 241, 242, and Computer Information Systems 121.

Mathematics 101. Pre-College Algebra. **(F,S)(3)**
This course is intended for students who need to improve their arithmetic and elementary algebra skills to take other mathematics courses such as Mathematics 131, College Algebra, or Mathematics 110, Applications of Mathematics for College Students. Specific topics to be discussed include numbers, fractions, algebraic expressions, polynomials, factoring, simplifying, laws of exponents, linear equations, simple graphs, and rational expressions.

Mathematics 110. Applications of Mathematics for College Students. **(F,S)(3)**
Mathematics with applications to business, biology, and social sciences. Linear functions and inequalities, geometry, number bases, probability statistics, and consumer mathematics. Emphasis on problem solving techniques.

Mathematics 131. College Algebra. **(F,S,Sum)(3)**
Brief review of intermediate algebra, including rational expressions, radicals, and exponents; solving equations,including quadratic equations; Applications; solving inequalities, including quadratic inequalities; graphing equations; graphs of functions; combining functions and finding inverse functions; exponential and logarithmic functions; systems of equations.

Mathematics 133. Trigonometry and Analytic Geometry. **(F)(3)**
Right triangle ratios, trigonometric functions, graphing trigonometric functions, identities, inverse trigonometric functions, laws of Sines and Cosines, polar coordinates and complex numbers, analytic geometry.

Mathematics 203-204. Mathematics for Elementary Teachers. **(F,S)(3)**
Historical development of the numeration system from an intuitive to a logical approach based upon set theory, definitions of the basic operations on whole numbers and their properties extended to integers, rationals, and irrationals; study of why and how of algorithms for all operations; topics in informal geometry. Fulfills Liberal Education Core for K-4 Education majors only.

Mathematics 241. Introduction to Calculus and Analytic Geometry. **(S)(4)**
Inequalities, the straight line, conic sections, limits, the derivative, differentiation of algebraic functions, applications of the derivative, extrema, and the antiderivative. *Prerequisite:* Mathematics 132 or permission of instructor.

Mathematics 242. Intermediate Calculus and Analytic Geometry. **(F)(4)**
The integral, applications of the integral, logarithmic and exponential functions, trigonometric functions, hyperbolic functions, techniques of integration, L'Hospital's Rule and indeterminate forms, and improper integrals. *Prerequisite:* Mathematics 241.

Mathematics 243. Advanced Calculus and Analytic Geometry. **(S)(4)**
Topics selected from polar coordinates, vectors, solid analytic geometry, partial differentiation, multiple integration, infinite series, and differential equations. *Prerequisite:* Mathematics 242.

Mathematics 301. Principles of Geometry. **(S)(3)**
Mathematical Proof: conjunctions, disjunction, implications, truth tables. Proofs using triangles, polygons, and circles. Transformations, area, space geometry, and non-euclidean geometries. *Prerequisite:* Mathematics 132 or 204. (Even years only.)

Mathematics 331. Introduction to Linear Algebra. **(F)(3)**
Vector algebra in Euclidean spaces, lines and planes in space, matrices and linear equations, abstract vector spaces. *Prerequisites:* Math 131 and permission of the instructor. (Odd years only.)

Mathematics 332. Linear Algebra. **(S)(3)**
Vector spaces, subspaces, linear independence, linear transformations, determinants, inner product spaces, orthogonality, and unitary transformations. *Prerequisite:* Mathematics 331. (Odd years only.)

Mathematics 333. Modern Algebra. **(on demand)(3)**
An introduction to abstract algebra including groups, subgroups, quotient groups, isomorphism theorems, rings, and ideals. *Prerequisite:* Mathematics 241 or permission of the instructor.

Mathematics 372. Probability and Mathematics Statistics. **(F)(3)**
Theoretical probability using point set approach, probability as a frequency ratio; probability for finite sample spaces; conditional probability; joint and continuous distributions, binomial distribution; Baye's theorem; statistical applications of probability; theory of sampling and variance. *Prerequisites:* Mathematics 242, which may be taken concurrently, and permission of the instructor. (Even years only.)

Mathematics 402. Functions of a Complex Variable. **(on demand)(3)**
Complex numbers, analytic functions, elementary functions of a complex variable. Cauchy's formula, Liouville's theorem, Laurent's series, residues, contour integration, conformal mapping, physical applications. (Even years only.)

Mathematics 403. Introduction to Analysis. **(on demand)(3)**
Sets and functions, topological ideas, LUB property, real sequences, continuity, mean value theorems, integration, definite integrals, Taylor's theorems, improper integrals, convergence of infinite series, power series, improper integrals with parameter. (Even years only.)

Mathematics 471. Differential Equations. **(S)(3)**
Differential equations of first order and first degree, differential equations of first order and higher degree, differential operators and linear differential equations, reduction of order. *Prerequisite:* Mathematics 242. (Even years only.)

PHYSICS

Requirements for a Major: Physics 211, 212, 213, 214, 312, 331, 401, and 411 plus an additional eight hours of upper level physics courses. Chemistry 332 may substitute for Physics 401. Required science cognates include Chemistry 111, 112, 131, and 132; Mathematics 241, 242, and 243; and General Science 471.

Requirements for a Minor: A minimum of twenty-one semester hours of Physics numbered 211 and above, including Physics 211, 212, 213, 214, 401, and either 312 or 331.

Requirements for Secondary Certification: A teacher education student who selects a major in physics is required to complete Biology 111 or 109 and 110 as well as Physics 105 or Environmental Studies 110. Those who select a minor in physics are required to complete one of the following: the area of concentration in science; the area of concentration in mathematics-physical science; or a teaching major in either mathematics, biology, or chemistry.

Physics 111-112. Elements of General Physics. **(F,S)(3)**
These courses are intended for life science and non-science students. They may be taken separately and in any order. Physics 111 topics include mechanics of motion; the properties of solids, liquids, and gases; and thermal phenomena. Physics 112 topics include wave motion and vibrations; electricity and magnetism; optics; and selected topics in modern physics. Does not count toward a minor. *Corequisite:* Mathematics 131 or permission of the instructor.

Physics 113-114. Elements of General Physics Laboratory. **(F,S)(1)**
Laboratory experiments accompanying Physics 111 and 112 respectively to illustrate basic principles and develop laboratory skills. No credit may be received for these laboratory courses without concurrent or prior completion of the corresponding lecture course.

Physics 211-212. General Physics. **(F,S)(4)**
Mechanics of solids, liquids and gases; laws of thermodynamics; kinetic-molecular theory, vibrating bodies; wave physics; laws of Coulomb, Faraday, Ampere, Ohm, Joule, and Lenz; electromagnetism optics. *Pre- or Corequisite:* Mathematics 242.

Physics 213-214. General Physics Laboratory. **(F,S)(1)**
A general physics laboratory course involving experiments in mechanics, heat, sound, electricity magnetism, and optics. Experiments are coordinated with Physics 211-212.

Physics 232. Basic Electronics Laboratory. **(on demand)(3)**
Theory and applications of solid state devices, power supplies, A.C. and D.C. circuits and diagrams computer interfacing, control circuits. *Pre- or Corequisite:* Physics 112.

Physics 303. Relativity. **(on demand)(3)**
Einstein's Special Theory of Relativity, including relativistic kinematics and relativistic momentum and energy. *Prerequisites:* Mathematics 131 and 132.

Physics 310. Statics. **(S)(3)**
Study of force systems on bodies at rest. Applications of conditions of equilibrium to coplanar and space systems. Virtual work, centroids, moments of inertia, and products of inertia. *Prerequisite* Physics 211. (Even years only.)

Physics 312. Electricity and Magnetism. **(F)(4)**
Electric charges, forces, field and potential with associated magnetic forces and fields; dielectric theory; capacitance, inductance, resonance, and oscillations; series and parallel DC and AC circuits measuring instruments; Maxwell's equations and electromagnetic waves. Four lecture hours per week. Strongly recommend prior enrollment in Physics 232. *Prerequisites:* Physics 212 and Mathematics 243 and 471. (Odd years only.)

Physics 331. Heat and Thermodynamics. **(F)(3)**
Thermodynamic systems and processes, equations of state, PVT surfaces and real substances, laws of thermodynamics, energy equations, enthalpy, entropy, thermodynamic potentials, application of thermodynamics to simple systems. *Prerequisites:* Physics 212 and Mathematics 243. (Odd years only.)

Physics 401. Principles of Modern Physics. **(F)(3)**
Elementary concepts of quantum mechanics, selected topics in atomic and nuclear physics. *Prerequisite:* Physics 212 and Mathematics 242. (Even years only.)

Physics 411. Classical Mechanics. **(S)(3)**
Motion of a particle, systems of particles, rigid bodies; moving coordinate systems; Lagrange's equations; small oscillations. *Prerequisite:* Mathematics 243. (Odd years only.)

Physics 420. Experimental Physics. **(S)(2)**
An upper-level physics laboratory course focusing on fundamental physical constants. Includes computer simulations. The class consists of one lecture hour and one laboratory hour. *Prerequisites* Physics 211, 212, 213 and 214. (Even years only.)

SCIENCE EDUCATION MAJORS (SPECIALIZATION COMPONENT FOR CERTIFICATION)

Students who wish to teach secondary science may choose one of the following three programs: (A) A Major (30 hours) in one of the sciences plus a certifiable minor in one of the other sciences or mathematics; (B) A mathematics-physical science area of certification; (C) A science area of concentration. Those seeking certification in the middle grades also have available an area of specialization in science.

All students seeking secondary certification in biology, chemistry or physics must take at least sixteen semester hours in biology, chemistry, physics or environmental studies outside the major requirements

1. AREA OF CONCENTRATION IN MATHEMATICS-PHYSICAL SCIENCE

A total of 48 semester hours are required including:

		Semester Hours
:HEM 111-112	General Chemistry	6
:HEM 131-132	General Chemistry Laboratory	2
:HEM 212	Quantitative Analysis	
OR		
:HEM 411	Inorganic Chemistry	4
:HEM 311	Organic Chemistry	4
ATH 241-242	Calculus and Analytic Geometry	8
ATH 331	Introduction to Linear Algebra	3
	Mathematics elective	4
'HYS 211-212	General Physics	8
'HYS 213-214	General Physics Laboratory	2
	Physics electives	7
		48

At least 18 semester hours must be in courses numbered 300 or above. General Science 471 is highly ecommended and may be counted in this 18 hour requirement. Students who choose this area are rged to exceed the minimum semester hour requirement and complete 21 semester hours in each of wo of the three fields (chemistry, mathematics, and physics).

A major or additional minors may be taken in the area. A teacher with such preparation would be ertified only to teach in the major or minor disciplines and all general interdisciplinary science courses t the secondary level.

2. AREA OF CONCENTRATION IN SCIENCE

A total of 48 semester hours are required including:

		Semester Hours
IOL 111	General Biology	4
IOL 232	General Zoology	
OR		
IOL 330	Anatomy and Histology	4
IOL 233	General Botany	
OR		
IOL 321	Field Biology	3-4
:HEM 111-112	General Chemistry	6
:HEM 131	General Chemistry Laboratory	1
:NVS 110	Physical Systems of the Environment	4
:NVS 350	Man's Geologic Environment	4
NSC 471	Science Seminar	1
'HYS 211-212	General Physics	8
'HYS 213	General Physics Laboratory	1
		36-37

Also included must be a minor in either biology, chemistry or physics. At least 18 semester hours nust be in courses numbered 300 or above.

3. TEACHING MINORS

A teacher education student who selects a minor in biology, chemistry or physics is required to complete one of the following: the area of concentration in science; the area of concentration in mathematics-physical science; or a teaching major in either mathematics, biology, chemistry, or physics.

PRE-PROFESSIONAL PROGRAMS

Students who have career interests in medicine, dentistry, veterinary medicine, optometry, or medica technology may fulfill the admissions requirements of respective professional schools by pursuing a Bachelor's degree in biology or chemistry. Students may also arrange for transfer to a professional schoo after three years (ninety-six semester hours) at Union College. Upon completion of one year of study a the professional school, students will be awarded their Bachelor's degree from Union College. (Se section on Combined Degrees.)

Since admission requirements of professional schools vary considerably, all students having a interest in these fields are advised to select the professional school they wish to attend and choose pre professional courses accordingly. An academic advisor will be assigned who, working closely with th student, will plan a program of study and assist with the admissions process into the professional schoo of their choice. For details of the following specific programs, Dr. William Henshaw should be consultec

Dentistry
Engineering
Medical Technology
Medicine
Optometry
Pharmacy
Physical Therapy
Veterinary Medicine

PHYSICAL THERAPY

Union College provides a two year curriculum which allows students to complete courses require for entrance into the Physical Therapists Assistant (PTA) program at Jefferson Community College i Louisville or the Physical Therapy Program at the University of Kentucky in Lexington.

Union College and Jefferson Community College have entered into an agreement whereby student from southeastern Kentucky may work toward an Associate of Applied Science degree and qualify t be a PTA. The student will take courses at Union College during the first two years and complete th program at Jefferson Community College during the third year. Jefferson Community College reserve two positions annually for qualified Union College students. To qualify for graduation from this pro gram, a student must also present a Red Cross First Aid Certificate earned within the last four year Students who enter this program will be asked to state in writing their intent to return to southeaster Kentucky to work as PTA's.

The Department of Physical Therapy at the University of Kentucky has approved Union's coursewor for the two year Pre-Professional Phase of their program. Admission to the Professional Phase at th University of Kentucky is based on completion and is not guaranteed.

DEGREE IN MEDICAL TECHNOLOGY

Union College has cooperative agreements with University of Louisville and The Methodist Hospit of Kentucky, Pikeville, in which the student attends Union College for three years and, upon acceptanc enters the cooperating institution and receives clinical training in medical technology for twelve month On satisfactory completion of the program the student is awarded a bachelor's degree in medic technology and should be qualified for a national certifying examination.

COMBINED DEGREE IN ENGINEERING

A Cooperative "Three-Two Plan" has been worked out with the University of Kentucky in which th student attends Union College for three years pursuing certain pre-engineering courses in addition t a solid program in liberal arts. At the end of the three years, upon the recommendation of Union Colleg the student enters the cooperating university or any accredited engineering school as a junior and i two additional years completes all the requirements for the B.S. degree in Engineering. Both the B.A. c B.S. from Union College and a B.S. in Engineering from the cooperating university are awarded at th end of the fifth year.

DIVISION OF SOCIAL SCIENCES

Van Michael Leslie, *Chairperson*
Appalachian Studies and Appalachian Semester
Anthropology — Behavioral Sciences — Criminal Justice — Geography
History — Political Science — Pre-Law — Psychology
Sociology — Area in Social Studies Education

ANTHROPOLOGY

ıthropology 221. Introduction to Cultural Anthropology. **(on demand)(3)**
A survey of the archaeological and biological history of mankind as it relates to the development of man and his culture, with comparisons drawn between the cultures of primitive people and Western Civilizations.

ıthropology 251. North American Indian Cultures. **(S)(3)**
The historical development of North American Indian technology, and the cross-cultural study of four diverse Indian cultures at the time of White contact, will be the main focus of this course. Economics, ecology, technology, role relations, medicine, politics and conflict will be the focus of study in each culture. (Even years only.)

BEHAVIORAL SCIENCES

Behavioral Sciences 245 and 341 are "core" courses in the Behavioral Sciences curriculum. Both urses are required as a part of the Psychology and Sociology majors or minors. Neither course is fered on an independent study basis.

havioral Science 245. Basic Statistics: Theory and Application. **(F,S)(3)**
Basic concepts of descriptive and inferential statistics, illustrations of applications in the fields of sociology, psychology, business, education, and natural science. Students should demonstrate a proficiency in basic mathematics and algebra as determined by grades in Mathematics 100 or on a placement test.

havioral Science 341. Methods of Behavioral Science Research. **(S)(3)**
Techniques and philosophies of behavioral science research including experimental, quasiexperimental, survey, evaluation, field, and unobtrusive designs for the collection and interpretation of information.

havioral Science 495. Independent Study. **(on demand)(1-3)**

CRIMINAL JUSTICE

Requirements for a Major: Thirty semester hours of course work including the following: Criminal stice 101, 201, and 301; Political Science 307 and 401; Sociology 363 and 464; and an additional nine mester hours chosen from the following: Criminal Justice 205 and 387, Psychology 202, 352, Sociology 1, or certain experimental courses.

Requirements for a Minor: Twenty-one semester hours of course work including the following: iminal Justice 101, 201, and 301; Political Science 307; Sociology 363; and an additional six semester urs chosen from the following: Criminal Justice 205 and 387, Political Science 401, Psychology 202, 2, Sociology 231, 464, or certain experimental courses.

Associate of Applied Science Degree in Criminal Justice

General Education Requirements		Semester Hou
BHSC 245	Basic Statistics: Theory and Application	3
ENGL 111	Freshman Composition I	3
ENGL 112	Freshman Composition II	3
ENGL 211	World Literature in Translation	3
HIST 131	Western Civilization to 1715	3
OR		
HIST 132	Western Civilization since 1715	3
OR		
HIST 201	United States History to 1865	3
OR		
HIST 202	United State History since 1865	3
PSYH 111	Introduction to Psychology	3
SOCI 131	Introduction to Sociology	3
Union College Liberal Core Science Requirement Section III		4
Union College Liberal Core Humanities Requirement (II B. or C.)		3
Elective Hours		6
		34

Criminal Justice Requirements		Semester Hou
CRJU 101	Introduction to Criminal Justice	3
CRJU 201	Criminal Procedure	3
CRJU 205	Introduction to Criminal Law	3
CRJU 301	Security Administration and Crime Prevention	3
Select at least six of the following courses:		
CRJU 387	Criminal Justice Practicum	3
PLSC 307	Criminal Justice Administration	3
PLSC 401	Public Policy and Criminal Justice	3
PSYH 202	Forensic Psychology	3
PSYH 352	Abnormal Psychology	3
SOCI 231	Juvenile Delinquency	3
SOCI 363	Sociology of Corrections	3
SOCI 464	Sociology of Deviance and Criminology	3
		30
	Total Associate Degree Hours	64

Criminal Justice 101. Introduction to Criminal Justice. **(F)(3**
An introduction to the criminal justice process including the areas of criminal justice administratio the police, the courts, and corrections.

Criminal Justice 201. Criminal Procedure. **(F)(3**
The law pertaining to the rights of defendants to criminal charges including: theories of responsibilit exclamatory matters, criminal trial procedures, classifications of evidence, presumptions, relevanc expert testimony, testimonial privileges, hearsay, confessions, and impeachment.

Criminal Justice 205. Introduction to Criminal Law. **(S)(3**
An introduction to criminal law including the origins and principles of criminal law, criminal liabilit and crimes against persons and property.

Criminal Justice 301. Security Administration and Crime Prevention. **(S)(3**
The study of the techniques and devices utilized by private industry, commercial and retail store and community agencies for providing on site security and crime prevention. *Prerequisites:* Crimina Justice 101 or permission of the instructor.

Criminal Justice 387. Criminal Justice Practicum. **(on demand)(3**
Criminal justice practicum consists of an eighty hour field placement in one of the areas of crimina justice: corrections, courts, or police. *Prerequisites:* Criminal Justice 101 or permission of the instructo

Please see the relevant sections of the catalog under Political Science, Psychology, and Sociology fo a description of the remaining courses in the Criminal Justice degree programs.

GEOGRAPHY

eography 101. Introduction to Geography. **(S)(3)**
Emphasis on the concepts of place, region, spatial interaction, landscape interpretation and landscape evolution. Deals with the graphic media of geography — maps, graphs, scale models. Case studies illustrate geographic principles to familiarize students with various parts of the world. For future teachers as well as students of the natural and social sciences.

eography 241. Geography of Appalachia. **(on demand)(3)**
A systematic analysis of the physical, demographic, economic, and cultural characteristics of the Appalachian landscape, with emphasis on the great diversity within the region.

HISTORY

Requirements for a Major: Thirty semester hours of history including History 131, 132, and 300. At ast 12 hours must be U.S. History and 12 hours must be non-U.S. History. Humanities 320 may also e counted toward the history major or minor.

Requirements for a Minor: Twenty-one semester hours in history including History 131 and 132. At ast 9 hours must be in U.S. History and 9 in non-U.S. History.

Language Recommendation: All history majors and minors are **strongly** encouraged to undertake e study of a foreign language in conjunction with their history program. For those intending to go to aduate school, it is recommended that a course of study leading to a Bachelor of Arts Degree be ompleted.

istory 131. Western Civilization to 1715. **(F,S)(3)**
A survey of the dominant themes in the formation of the Western civilization from the ancient world to the age of absolutism. Special attention will be given to the reading and interpretation of primary historical sources.

istory 132. Western Civilization since 1715. **(F,S)(3)**
A survey of the dominant themes in the formation of modern Western civilization. Special attention will be given to the reading and interpretation of primary historical sources.

istory 201. United States History to 1865. **(F)(3)**
A survey of American history through the Civil War, tracing the development of the American nation. Stress is placed on the nature of colonial society, the American Revolution, the creation of a national government, the influence of Jackson, and the Civil War.

istory 202. United States History since 1865. **(S)(3)**
A survey of American history to present times tracing the rise of America as a world power. Emphasis is on the changes of industrialization, the loss of civil rights, protest and reform, the Depression, and American influence in the world.

istory 233. History of Appalachia. **(F)(3)**
A survey of the region from settlement to the present, with emphasis on the period since the Civil War. The course examines the diversity of historical development within the region, and the paradox of relative isolation along with integrating aspects of industrialization and modernization.

istory 241. American Economic History. **(F)(3)**
Examination of the economic forces shaping the development of the American nation. Topical consideration of mercantilism, the rise of capitalism, slavery, the shocks of industrialization, the New Deal, and criticism of American economic power and capitalism. (Odd years only.)

istory 300. Historical Research and Methods. **(F)(3)**
Gathering and criticism of data; bibliographies and aids; problems in historiography, composition analysis, and the final monograph. Regardless of the monograph topic chosen by the student, this course does not count toward either the United States or non-United States requirement within the major. *Prerequisites:* A previous 100 or 200 level course in history or permission of the instructor.

istory 311. United States Colonial and Revolutionary Eras (1600-1815). **(S)(3)**
An examination of the conflicting interpretations of these eras. A topical treatment of colonial society and culture, the causes and consequences of the Revolution, the Constitution, and the early national period. *Prerequisites:* A previous 100 or 200 level course in history or permission of the instructor.(Even years only.)

History 312. Jacksonian Era & the Civil War (1815-1865). **(S)**
Emphasis on the conflicting historical interpretations of Jacksonian American and the Civil W. Topics include the Second Political Party System, slavery, expansion, and the causes of the Civil W. *Prerequisites:* A previous 100 or 200 level course in history or permission of the instructor. (Even yea only.)

History 313. Industrial America (1865-1919). **(S)**
A consideration of Reconstruction, the loss of civil rights, industrialization and urbanization, Popul and Progressive reforms, World War I, and historiography. *Prerequisites:* A previous 100 or 200 lev course in history or permission of the instructor.(Odd years only.)

History 323. Latin America. **(on demand)**
Survey of Latin American history from the discoveries by Columbus to the present. *Prerequisite:* previous 100 or 200 level course in history or permission of the instructor.

History 341. History of Britain to 1688. **(F)**
British history from the Roman occupation to the Glorious Revolution with emphasis on the dev opment of the English people and state. *Prerequisite:* A previous 100 or 200 level course in history permission of the instructor.

History 342. History of Britain since 1688. **(S)**
A study of British history from the Glorious Revolution to the present with emphasis on political a institutional development and the role of Britain in the world, including the rise and decline of t British empire. *Prerequisites:* A previous 100 or 200 level course in history or permission of t instructor.

History 345. American Constitutional History: Civil and Political Rights. **(on demand)**
An examination of the influence of the Supreme Court with primary stress given to political and ci rights. Major consideration is the modern and Warren Supreme Court. *Prerequisites:* A previous 1 or 200 level course in history or permission of the instructor.

History 351. Europe to 1815. **(on demand)**
History of Europe from 1350 to 1815. The course covers the intellectual, political, and social histo of Europe from the Renaissance to the era of the French Revolution and Napoleon. *Prerequisites:* previous 100 or 200 level course in history or permission of the instructor.

History 352. Europe since 1815. **(S)**
History of Europe from 1815 to the present. The course covers the intellectual, political, and soc history of Europe from the Congress of Vienna to the contemporary era of European integratic Special focus will be given to the process of modernization, the world wars, and the course European history since 1945. *Prerequisites:* A previous 100 or 200 level course in history or permissi of the instructor. (Odd years only.)

History 361. Middle East History. **(F)**
An introduction to the history of the Middle East from the beginnings of Islam to the present da Focus will be on Islamic institutions and culture, the modernization of Middle Eastern governmen the struggle by various people for political independence, the course of the Arab-Israeli conflict, a contemporary developments in the region. *Prerequisites:* A previous 100 or 200 level course in histo or permission of the instructor. (Odd years only.)

History 421. The Middle Period (1821-1850). **(S)**
A detailed examination of Jackson, politics, and the culture of the period. Stress is placed on refor and the predominance of change in American life, and conflicting interpretations of the perio *Prerequisites:* A previous 100 or 200 level course in history or permission of the instructor. (Odd yea only.)

History 445. American Constitutional History. **(on demand)**
An examination of the origins of the Constitution, and the history of changing constitutional inte pretations as embodied in the decisions and dissents of the U.S. Supreme Court. Major topics inclu federal-state relations, econoic regulation, and civil and political rights and liberties. *Prerequisite:* 200 or 300 level course in U.S. history or permission of the instructor.

History 446. History of Russia. **(Sum)**
Russian history since 1689. Survey of the political and social changes in Russia from the time of Pet the Great to the present, including an extensive review of the origins and development of the mode Soviet state. *Prerequisites:* A previous 100 or 200 level course in history or permission of the instructo (Even years only.)

istory 470. Twentieth Century America. **(F)(3)**
Selected topics on the nation's history since 1900, including the New Deal, Viet Nam, and Watergate. *Prerequisites:* A previous 100 or 200 level course in history or permission of the instructor. (Even years only.)

istory 475. Special Topics in American History. **(on demand)(3)**
An intense, analytic study of a major problem or topic in American history. May be repeated for credit as long as the topic is different. *Prerequisite:* A previous 100 or 200 level history course or permission of the instructor.

istory 476. Special Topics in European History. **(on demand)(3)**
An intense, analytic study of a major problem or topic in European history. May be repeated for credit as long as the topic is different. *Prerequisite:* A previous 100 or 200 level hsitory course or permission of the instructor.

istory 495. Independent Study. **(F,S,Sum)(1-3)**

HISTORY AND POLITICAL SCIENCE
AREA IN HISTORY AND POLITICAL SCIENCE

Requirements for a Major: Thirty-nine semester hours including at least twenty-one semester hours history, twelve semester hours of political science, and six additional elective hours.

Specific requirements include: History 131, 132, 201, 202, 300, at least one additional course in United ates history, at least one additional course in non-United States history, and Political Science 101. umanities 320 may count toward the non-United States history requirement. An additional nine hours e required in political science. Environmental Studies 313 may count toward the political science quirement. Certain experimental courses may count toward the requirements for the United States story, non-United States history, and political science requirements. The remaining six hours of ectives may be chosen from any of the courses not used to meet a previous requirement toward the ajor. Teacher certification in the area of history and political science is available; students should onsult with an academic advisor for more information.

POLITICAL SCIENCE

Requirements for a Minor: Twenty-one semester hours, including Behavioral Science 341 and Political Science 101. Environmental Studies 313 may count toward the minor.

olitical Science 101. American National Government. **(F)(3)**
A survey of the principal characteristics of the American National Government; examination of constitutional principles, federalism, political participation, institutions of government, and the politics of public policy.

olitical Science 231. International Politics. **(F)(3)**
Basic historical, economic, and cultural factors in the international political system. The rise and development of Western nation-state systems; the foundations of national power; sovereignty, nationalism and imperialism; the development of international organizations and cooperation.

olitical Science 305. American Political Parties and Politics. **(F)(3)**
The organization, functions, and practices of political parties in the United States, their methods of influencing public opinion, their role in nominations and elections, and their impact on popular government. (Odd years only.)

olitical Science 307. Criminal Justice Administration. **(S)(3)**
A study of the administrative principles and management practices of criminal justice organizations including: the police, courts, and correctional facilities.

olitical Science 308. The American Presidency. **(F)(3)**
Analysis of the institution of the presidency, its functions, formal and informal relationships, and its limitations within the American political system. (Even years only.)

olitical Science 401. Public Policy and Criminal Justice. **(F)(3)**
The study of policy questions in the criminal justice system. Particular emphasis is placed on a detailed examination of the major policy issues that link crime, politics, administration, and the law.

Political Science 460. Political Philosophy. **(S)**
The chronological and thematic examination of perennial issues in political science including liber justice, equality, political obligation, and political authority as developed over time by the politi philosophy of Greek and Latin philosophers, Medieval thinkers, and modern theorists representi various world-wide perspectives. (Odd years only.)

Political Science 461. Administrative Management. **(on demand)**
Methods of applying administrative principles to the operation of government agencies. Relevar of administrative theory to management procedures in government; the relation of policy formati and implementation to the administrative policy system environment.

Political Science 470. Political Violence. **(S)**
The purpose of this course is to introduce the student to the issues relating to violence as a compone of politics. Topics such as terrorism, warfare, and arms proliferation will be analyzed. In addition t course will familiarize the student with several regional conflicts, i.e., Northern Ireland. (Odd yea only.) *Prerequisite:* Political Science 231 or permission of the instructor.

PSYCHOLOGY

Requirements for a Major: Thirty semester hours, including Behavioral Sciences 245, 341, Psycholo 111, 352, and 460.

Requirements for a Minor: Twenty-one semester hours including Behavioral Sciences 245, 341, ar Psychology 111.

Psychology 111. Introduction to Psychology. **(F,S)**
Emphasis on the study of human behavior and the ability of the individual to make adjustments his environment.

Psychology 201. Psychology of Personal Adjustment. **(on demand)**
Factors determining the development of personality, principles of mental health, and problen involved in the dynamics of human adjustment.

Psychology 202. Forensic Psychology. **(F)**
An application of psychological principles to the criminal justice system. Topics include: the relatio ship between the legal and mental health systems, the assessment of criminal responsibility, th psychodynamics of criminal behavior, and intervention strategies.

Psychology 210. Child Development. **(on demand)**
Emphasis on recent child development theories with laboratory experiences with children on a on to-one basis.

Psychology 330. Social Psychology. **(F)**
Major emphasis is on problems involved in human relations. Designed to help the individual understand and adjust to group thought and action. Attention is given to recent psychological an sociological research in human relations. *Prerequisites:* Psychology 111 or permission of the instructo

Psychology 352. Abnormal Psychology. **(S)**
Mental disorder, changing conceptions of normality, the more common forms of mental disorder their psychological interpretation, principles of effective mental hygiene, and contemporary ap proaches to psychotherapy. *Prerequisites:* Psychology 111 or permission of the instructor.

Psychology 361. Psychology of Learning. **(on demand)**
Basic concepts and principles of learning with emphasis upon human and animal laboratory studie *Prerequisites:* Psychology 111 or permission of the instructor.

Psychology 402. Counseling Theories and Techniques. **(S)**
Basic theories, types, and techniques of counseling. Practice in individual and group techniques c interviewing. *Prerequisites:* Permission of the instructor required.

Psychology 410. Psychology of Addictions. **(S,Sum)**
Major emphasis is on factors determining the development of addictions, including physiologica emotional, cognitive, and behavioral dimensions of the addictive process. Also emphasizes interver tion and treatment strategies for the various types of chemical dependency and substance abuse *Prerequisites:* Psychology 111 or permission of the instructor.

Psychology 460. Theories of Personality. **(F)**
Nature of personality structure and dynamics. Classical psychoanalysis, social psychological an stimulus-response theories included. *Prerequisites:* Psychology 111 or permission of the instructor.

ychology 461. History and Systems of Psychology. **(on demand)(3)**
Origins of psychological thought within science and philosophy, tracing the development of systems and theories within German, British, and American psychology. *Prerequisites:* Psychology 111 or permission of the instructor.

ychology 470. Theories of Learning. **(S)(3)**
Basic fundamentals of learning theory as formulated by such theorists as Thorndike, Pavlov, Guthrie, Skinner, and Hull. Attention is given to the empirical support of various theories. *Prerequisites:* Psychology 111 or permission of the instructor.

ychology 495. Independent Study. **(F,S,Sum)(1-3)**

SOCIOLOGY

Requirements for a Major: Thirty semester hours, including Behavioral Sciences 245, 341, Sociology 1, 460. Psychology 330 is strongly recommended and will be credited toward the thirty semester hour quirement.

Requirements for a Minor: Twenty-one semester hours, including Behavioral Sciences 245, 341, ociology 131. Psychology 330 is strongly recommended and will be credited toward the twenty-one mester hour requirement.

ppalachian Semester courses, Sociology 349 and 422, may count toward both the major and minor.

ociology 131. Introduction to Sociology. **(F,S)(3)**
The social interaction of persons and groups; man's cultural heritage and social nature; analysis and principles of group life; forms of collective behavior; the process of socialization; social structure, interaction and reorganization, including race relations and social class; a variety of social institutions; the family, education, religion; the economy and politics; social change.

ociology 231. Juvenile Delinquency. **(F)(3)**
An introduction to the study of juvenile delinquency and the juvenile justice system. The course investigates the topics of juvenile law, theories of causation procedural issues, and their interrelationships.

ociology 241. Sociology of Appalachia. **(F,S)(3)**
Uses the basic principles and concepts of sociology to study life in the Appalachian region. The areas of study include socio-economic class, culture, folklore, social institutions, the family, religion, schooling, poverty, and development.

ociology 251. Current Socio-Economic Problems. **(F)(3)**
Scientific understanding of social problems; problem areas in contemporary American society; types of personal disorders and role impairment; the influences of social change on the structure of society. Attention is also given to the question of why certain forms of deviance become defined as social problems.

ociology 255. Selected Topics in Political Sociology. **(on demand)(3)**
A series of seminars and small group discussions organized around a set of case readings in the area.

ociology 271. Marriage and the Family. **(F,S)(3)**
Background experiences in the lives of young people leading up to courtship and marriage; the establishment and functioning of the home, with related biological and social factors. Emphasis upon changing attitudes toward family relationships, some of the problems involved and suggested solutions.

ociology 311. Human Ecology. **(S)(3)**
Population distribution, growth, composition, and its relevance to current economic, social, and political problems. *Prerequisites:* Sociology 131 or permission of the instructor.

ociology 353. Minority Groups. **(F)(3)**
A social scientific study of the origin and organization of minorities and their effect on society, with particular emphasis on minorities in the United States. *Prerequisites:* Sociology 131 or permission of the instructor.

ociology 363. Sociology of Corrections. **(S)(3)**
The study of the origins and organization of corrections in the United States. Topics include correctional ideologies, the social structure of various types of correctional facilities, probation, and parole. *Prerequisites:* Sociology 131 or permission of the instructor.

Sociology 371. Social Institutions. **(on demand)(**
An examination of the structure and function of social institutions, with primary orientation with the American milieu. Particular emphasis on socialization, stratification, social change, and relatio among institutions. *Prerequisites:* Sociology 131 or permission of the instructor.

Sociology 372. Social Stratification and Inequality. **(S)(**
An analysis of the social stratification system including the concepts of class, status, prestige, incom and wealth; and, the impact of social stratification on American society. *Prerequisites:* Sociology 1 or permission of the instructor. (Odd years only.)

Sociology 387. Field Practicum in Sociology. **(on demand)(**
The field practicum in sociology is designed to give social science majors practical experience in professional field related to sociology. Field placements will include such diverse experiences working in the county clerk's office, pre-trial services, social services and other programs. *Prerequisite* Behavioral Science 245, and either Anthropology 221, Psychology 111 or Sociology 131, and permi sion of the instructor.

Sociology 421. Rural and Urban Sociology. **(F)(**
Comparative and interrelated study of urban and rural life considering physical, institutional, soci and economic factors of modern life in cities and in the countryside. *Prerequisites:* Sociology 131 permission of the instructor. (Even years only.)

Sociology 433. Social Change. **(on demand)(**
This course introduces students to the problems of development and change. Examples will be draw from Third World models of development, nationalism, imperialism, environmentalism, and huma rights. The course is interdisciplinary, with emphasis on historical, economic, environmental an sociological aspects. *Prerequisites:* Sociology 131 or permission of the instructor.

Sociology 460. Sociological Theory. **(F)(**
The major theories which have proved useful in investigating the nature of society are examined a cultural products, ideologies, and scientific models. Special attention is given to major figures suc as Comte, Durkheim, Weber, Merton, C. Wright Mills, White and Sorokin in the emergence an convergence of their theoretical development. Lecture and discussion in a seminar setting. *Prerequi sites:* Sociology 131 or permission of the instructor.

Sociology 464. Sociology of Deviance and Criminology. **(S)(**
This course will develop an understanding of the social definitions and implications of deviance Various types of deviant behavior and relevant theories of society will be addressed. *Prerequisite* Sociology 131 or permission of the instructor.

Sociology 470. Collective Behavior and Social Movements. **(Sum)(**
An analysis of the theoretical interpretations made by social and behavioral scientists of individua and collective behavior in crowds, demonstrations, disasters, social movements, riots, and politica revolutions in Western Culture focusing on the United States from 1870 to the present. *Prerequisite* Sociology 131 or permission of the instructor.

Sociology 495. Independent Study. **(on demand)(1-**

APPALACHIAN STUDIES

An interdisciplinary minor in Appalachian Studies is available to interested students. Courses in volving the study of Appalachia may be found throughout this catalog.

Requirements for a Minor. Twenty-one semester hours chosen from the following: Behavioral Sci ences 341 or History 300; Environmental Studies 313 and 469; Geography 241; History 233; and Sociolog 241. Participation in the Appalachian Semester may also be counted toward a minor in Appalachia Studies.

APPALACHIAN SEMESTER

Deborah J. Thompson, *Director*

The Appalachian Semester offers mature students a unique educational opportunity to devote their l time to studying the Appalachian region — its strengths, its problems, and its challenges. The ogram's objectives are to promote in-depth awareness and understanding of life in Appalachia from interdisciplinary point of view. This comprehensive academic program, which includes both classom and field experience, provides 15 semester hours of credit in a variety of disciplines and offers the ident the opportunity to become actively involved in a unique part of American society.

The following courses comprise the Appalachian Semester. Students must complete an application th the Director prior to enrollment in this program.

ciology 345. Historical and Contemporary Appalachian Culture. **(F)(3)**
A multidisciplinary introduction, within the context of regional unity and diversity, to mountain society, folk culture, literature, music, religion, ethnic groups, geography and history.

ciology 349. Political Economy of Appalachia. **(F)(3)**
An analysis of the political economy of the Appalachian Region, e.g., settlement patterns; subsistence and commercial agriculture; timber, coal, textiles, and tourism; land ownership and land use; the corporate sector; taxation; government programs and planning; and issues of external and internal power relationships.

ciology 422. Social Institutions in Appalachia. **(F)(3)**
A theoretical and observational analysis of the cultural and social characteristics of the Appalachian Region. Special emphasis will be given to the contemporary Appalachian culture and to the interaction of mountain people with the broader forces of social change at work in modern America.

ciology 487. Appalachian Field Practicum/Research. **(F)(6)**
Each Appalachian Semester student, in consultation with the program director, will develop a specialized field experience. This course may be either experiential learning in a service or institutional setting, or directed study on a regional topic. Academic credit is available in English, history, sociology, anthropology, psychology, or social work, and in other disciplines on a negotiated basis as necessary and feasible.

AREA IN SOCIAL STUDIES

An area of concentration in social studies consists of a minimum of forty-eight semester hours to clude: a minimum of seven courses in history for a total of at least twenty-one semester hours with at ast three courses in United States history, three courses in non-U.S. Western history, and one course non-Western history. History courses numbered 381 and 481 are special topics courses that may unt toward either the U.S. history or the non-U.S. Western history requirement depending on course ntent.

The remaining twenty-seven semester hours credit may be selected from certain courses in the areas anthropology, economics, geography, political science, psychology, and sociology. Social studies bjects in which a student has completed nine or more semester hours shall be designated as concenation areas on the certificate.

Area concentrations are available in the fields of: economics, political science, psychology, and ciology. Students should consult with an advisor for all details and program requirements, and are sponsible for meeting all social studies curriculum plan requirements.

PRE-LAW

Most law school admissions committees require a student to have a four-year college program leading the Bachelor of Arts or Bachelor of Science degree plus an acceptable score on the Law School dmissions Test. Regardless of the major, elective hours in accounting, business, history, political ience, philosophy, and English prove helpful. Students should consult with a pre-law advisor no later an the junior year.

EDUCATION CERTIFICATION IN THE SOCIAL SCIENCES

Students interested in pursuing education certification in one of the social science disciplines or are of concentration are urged to consult with the appropriate faculty in both the department of educatio and the division of social sciences for guidance in the scheduling and sequencing of courses.

CAMPUS INFORMATION

Location, Campus and Buildings

Union College is located in Barbourville, a residential town of 3,500, on U.S. highway 25E midway between Lexington, Kentucky, and Knoxville, Tennessee. The historic Wilderness Road runs along the eastern edge of the campus. Cumberland Gap National Historical Park is thirty miles away. The Doctor Thomas Walker State Shrine is four miles from the campus and in adjoining counties are Cumberland Falls State Park, Levi Jackson State Park, and Pine Mountain State Park.

On one of the most picturesque campuses of the South, Union College is proud of its Georgian buildings. Shaded by overhanging elms, the red brick buildings give the campus a majestic charm of dignity and beauty.

Speed Hall, (Administration Building), 1897-1905. A gift from the estate of Mrs. Fanny Speed of Louisville, KY. Her bequest also partially financed Centennial Hall and Stevenson Hall.

Centennial Hall, (formerly the Classroom Building), 1907.

Stevenson Hall, Men's Residence Hall, 1907; wings added 1957.

Baldwin Place, the home of the President, 1925. The gift of Mr. and Mrs. F.E. Baldwin, Elmira, New York.

Data Processing Center/Post Office Building, (formerly Maintenance Building), 1938, originally equipped by a gift from the estate of Robert Norton, New Albany, Indiana.

Abigail E. Weeks/Milton H. Townsend Memorial Library, 1941, originally furnished by a gift from Mrs. Abbie E. Stewart. Expanded, 1987.

Milton H. Townsend Library Annex, 1993.

Pfeiffer Hall, Women's Residence Hall, 1942; wing added 1960. The original wing was a gift from the estate of Mr. and Mrs. Henry Pfeiffer, of New York City.

Conway Boatman Chapel and Fine Arts Building, 1949.

College Courts, apartments for married students, 1954; expanded in 1964.

College Park Drive, 1960, faculty residential area.

Langford Apartments, 1962. Gifts from the estates of Miss Mary Kyle Dugan and Mrs. Mary Gilbert Langford in memory of Mr. and M George Langford. Housing for faculty and st

Physical Education Building, 1964, and Jo M. Robsion Arena, 1992, including the Swi ming Pool, 1957.

Lakeside Hall, Men's Residence Hall, 196

Frances Patridge Student Center, renovat 1991 (the original Student Center was built 1964).

Myrtle Cole Minton Cafeteria, 1991.

Mahlon Miller Science Center, 1973.

Religious Life Center, 1975.

Lakeside Center, houses the Division of S cial Sciences.

Maintenance Building, 1990.

Soldiers and Sailors Memorial Intramu Center, (formerly Dramatic Arts Center), 19 renovated 1990.

Jack and Juanita Phillips Athletic Fields a Sports Complex, 1991.

Publications

Reflections — A literary magazine providi encouragement and opportunity for expressi of creative writing and publishing on the Uni campus.

Union College Bulletin — An official qua erly bulletin, one issue of which is the catal number. The bulletin is sent free on request.

Union Express — A newspaper published the journalism program.

Union College Alumnus — A magazine pu lished by the Alumni office.

Union and You — A publication that co bines the official calendar and institutional p icies. This is the student handbook.

Student Organizations

Students have the opportunity of participa ing in and developing leadership through number of campus organizations. Some of the are departmental, some are limited to honor st dents in their fields, many are open to all inte ested students. Each has a faculty or staff spo sor and some include faculty in the membership. The following are official clubs an organizations as approved by the faculty Union College. Campus organizations must fi

ch year for sanction to operate and new organtions must apply to be recognized and sancned. The Vice President for Student Life is the ministrative contact for organizations and for eir requests for funds from student activities onies.

Academic Team — An opportunity to particate in a multi-campus quick-recall league.

Alpha Psi Omega — A national honorary tere fraternity. Union's Zeta Chi chapter serves encourage participation in the college's therical activities and to develop larger and better formed theatre audiences.

Appalachian Wilderness Club — A group to plore the outdoors through hiking, camping, d caving.

Baptist Student Union — An organization eking to provide Christian fellowship on and f campus leading to commitment to Christ; eks to provide training for a life of christian rvice; seeks to provide spiritual support for all udents.

BLTN (Better Late Than Never) — An organation seeking to provide information, social tlets, counseling, and emotional support for on-traditional students (those who have expeenced a gap between their secondary education d college or an interruption in their college reers).

Black Student Alliance — An organization eking to promote cooperation, fellowship and lidarity among student groups with a special ncern for the needs of minority students on e Union campus.

Business Club — A business organization romoting scholastic achievement, service to the mmunity, development of leadership potenal, social interaction, and increased awareness the business world.

Campus Activities Board — A student organation to plan and manage the primary campus tivities calendar and its scheduled events. The ssociate Dean for Student Life serves as the rimary advisor. The board seeks to provide pport and encouragement to individuals and ganizations toward creating a broad range of tivities.

Collegiate 4-H — This club seeks to promote, ercise, maintain, and increase interest in 4-H cal through international levels. A service-orited organization.

Commuter Council — An organization seekg to explore the needs, interests, and problems facing non-residential students. The Commuter Council seeks to plan and manage activities and services for non-residential students. The Dean of Students serves as advisor to this council.

Dawg Pound — An organization to encourage school spirit; increase campus participation in Union athletic events; and create a spirit of unity among students, faculty, administration and staff.

Fellowship of Christian Athletes — An organization that serves to present to students, athletes and coaches the challenge and adventure of receiving Christ and serving Him; seeks to promote athletic involvement and spiritual growth. Not limited to student-athletes.

Gamma Beta Phi — A national honor society promoting scholarship, leadership, and good citizenship at Union College.

HASTE — An organization to promote recycling and improving environmental projects on campus.

History and Political Science Club — An organization seeking to provide opportunities for topical discussions, for travel to significant historic sites, for special interest events.

Intramural Council — An organization serving to plan and manage an active broad-based and competent program of intramural leisure sports activities for the women and men of the campus. The Intramural Director serves as coordinator and advisor to the Intramural Council.

Iota Sigma Nu — An honor society to provide recognition for honor students by uniting them in an organization which encourages high ideals, promotes diligence in study, and rewards excellence in scholarship.

Literary Club — A club to organize guest speakers and writing contests on the Union campus.

Music Educators National Conference — An organization for future music educators. Activities include regular meetings, guest speakers and professional group outings.

National Education Association—Student Program (NEA-SP) — A national pre-professional organization for men and women planning to pursue teaching as a career.

Newman Club — An organization seeking to provide fellowship for Christian students, particularly for Catholic students on campus.

One+ Club — A single-parent support group that convenes for lunches and conversational meetings.

Patridge Student Center Board — A student and staff advisory board which serves to promote accessible, active, proportional, creative use of student union facilities. This is inclusive of the Intramural Center.

Philosophy Club — A club that holds occasional meetings to discuss various issues.

REFLECTIONS — A literary magazine providing encouragement and opportunity for expression of creative writing and publishing on the Union campus.

Residence Hall House Councils and the Residence Hall Coalition — These are branches of the Student Government Association that deal with residence hall life issues and programs.

SHARE — An organization seeking to provide service learning opportunities for students and staff both on and off campus.

Social Science Club — An organization to provide interest in the social sciences and to provide extra-curricular activities related to topics in the social sciences.

Student Athletic Trainers Association — An organization that invites guest speakers with new information on sports medicine.

Student Government Association — Provides opportunities for students to experience campus government and to examine quality-of-life issues of the campus. Seeks to assure reasonable due process in campus living.

Union College Pep Band — Provides opportunity for students and staff to play instruments in support of special campus events.

Union College Singers — A vocal ensemble that performs in chapel, Christmas concert, spring concert, graduation, tours and festivals.

Union College Student Ambassadors — A student service organization whose purpose is to introduce new students and guests to campus life and its facilities. Activities include Orientations, Parent's Weekend, Senior Day, Homecoming and hosting special guests. Members participate in an annual regional orientation conference.

UNION EXPRESS — Responsible for the regular production of a campus newspaper.

United Methodist College Fellowship — Serves to provide opportunities for study, prayer, fellowship and service with Unit Methodist sponsorship and support.

Athletics

Union College is a member of the Kentucl Intercollegiate Athletic Conference (KIAC), tl Mid-South Football Conference (MSFC), tl Kentucky Women's Intercollegiate Conferen (KWIC), and the National Association of Inte collegiate Athletics (NAIA). The college pr motes athletics for physical development and a vital part of the program of extra-curricul activities. The program emphasizes the prote tion of the best interests of the student athlet Union teams are noted for "clean" sport ar competitive spirit. Sport for fun and charact building is fundamental. In intercollegiate con petition for men, the College is represented b varsity teams in football, basketball, socce swimming, tennis, golf, and baseball.

Separate women's teams are active in baske ball, volleyball, swimming, tennis, soccer, an softball and compete against women's tean from other colleges and universities in the are

In addition to the varsity sports competitio for men and women, Union sponsors a varsit cheerleading squad. The cheerleading squad open to both men and women and perform home football and basketball contests.

Intramural Activities

The intramural program is directed by the As sociate Dean for Student Life. Union Colleg sponsors intramural activities including touc football, basketball, free-throwing, badmintor softball, aerobics, tennis and volleyball to hav a "sports for all" program. The intramural or ganization is, in general, made-up of men's women's, and co-ed independent teams. Th program includes both team and individua sports. No college credit is given for intramurals but everyone is urged to take part. Union Colleg is a member of the National Intramural-Recrea tional Sports Association (NIRSA).

Student Conduct

Each student is expected to conduct himself, herself at all times according to the rules of an strong society. This obligation includes compli ance with Federal, State and local laws and ad herence to college regulations. As members of

e society, students are always free to peace-lly and lawfully petition for amendment or odification of the various laws as well as the llege regulations. However, the rights of the udent body as a whole and the College as an stitution of higher education supersede the ghts of any individual student or any group of udents. Accordingly, not in an attempt to stifle ssent, but rather to perpetuate an environment here the student may peacefully pursue his udies, actions which are disruptive to the nor-al functions and operations of the College will ot be tolerated. Students who are disorderly in nduct, or unmindful of the rights of others, ay be required to withdraw from the College.

No student shall possess or use alcoholic bev-ages when on college property or when away om the campus representing the College in any ay, i.e., as a participant or spectator at a College hletic event or other college function. Any stu-ent violating this regulation may be required to ithdraw from the College.

Union College students are obliged to show scretion, good judgment, and strong respect r Christian principle in all interpersonal rela-onships.

The sale, possession, or use of drugs or sub-ances in violation of the Federal, State, or local ws is prohibited. Any student who illegally lls, possesses, or uses such drugs will be subject criminal prosecution by the appropriate law nforcement agencies and also may be sus-ended or expelled. It is the announced policy Union College to cooperate fully with the var-us law enforcement officials in the enforce-ent of the drug laws as with all other laws. A udent's lawful use and possession of certain rugs prescribed by a qualified medical practi-oner such as a physician is, of course, permit-d.

Guns, firearms, weapons, archery gear, and xplosives of any kind are forbidden in the res-ence halls or on the campus. Students may be xpelled for failure to abide by this rule.

Gambling in any form is strictly forbidden.

The complete Student Conduct Code is rinted in UNION AND YOU, the Student andbook. The Dean of Students serves as the ief discipline officer for student conduct for e College.

The College always seeks not to intrude un-ecessarily on individual privacy without cause. nion College expects good housekeeping from l on-campus resident students. Residents who fail to keep their rooms in satisfactory condition may have their housing contract revoked. The College reserves the right to enter and inspect the rooms and on-campus motor vehicles of students at any time.

The academic conduct code is printed in UNION AND YOU, the Student Handbook. The Vice President for Academic Affairs is the chief academic discipline officer for the College. The Student Code defining procedures for dealing with academic dishonesty can be obtained in the office of the Vice President for Academic Affairs.

Good citizenship is a requirement for a student to fully enjoy the privileges the College has to offer. Students who demonstrate a pattern of poor citizenship choices will be reviewed for loss of privilege to receive any form of institutional financial aid. Such students may also lose the privilege to participate in cocurricular, intramural, and varsity programs.

Social Life

Students are encouraged to accept every legitimate opportunity to engage in social functions. The faculty emphasizes the value of well-directed social activities. Student organizations, the faculty, and local churches make desirable contributions to the promotion of social life. The Associate Dean for Student Life is responsible for planning, initiating, and producing a comprehensive program of student social and recreational activities. All social functions are subject to the rules and regulations of the college.

Automobiles

Automobiles parked on campus must be registered in the Business Office. All must display a current legible parking permit sticker. Stickers must be displayed in the rear window of the car on the driver's side or hanging from the rear view mirror. Cars must be parked in the assigned lots as designated by the Business Office. Violation of parking regulations may result in vehicles being ticketed or towed away at owner's expense. Handicapped parking is provided.

Health Service

The College, by special arrangement with the Knox County Health Department, maintains a Student Health Center on campus. It is open

from 2:00-4:30 p.m. most weekdays of the regular semester. There is a $1.00-5.00 charge for this service. The College does not have facilities for extended care; arrangements for hospitalization must be made by the student or his/her parent(s) or guardian. Knox County General Hospital is adjacent to the campus and has a 24-hour emergency room. Student Life Staff members will assist in contacting a physician when needed and if requested. In the event of an emergency, the College reserves the right to employ a physician or to have a student hospitalized without consent of parents. Any student under 18 years of age must have documents from parent(s) or guardian enabling the student to obtain care when needed and providing authorization for an adult local person to make essential health care decisions in the event of an emergency. The College does not provide health care insurance. All students are strongly encouraged to secure coverage for an accident, sickness, and hospitalization. All claims under a student's insurance plan are to be filed by the student and the attending physician and not by Union College. An elective basic hospitalization and outpatient insurance plan is available; information can be obtained through the College. Coverage is also available for spouse and children.

The College requires that a student health information sheet and current immunization records be completed by a physician and placed on file in the Student Life Office before beginning studies at Union. Current MMR immunization is required — particularly for those born in 1957 or later.

Any student with a special health problem requiring special care and/or that may in any way be a risk to others must provide information about this condition to the Vice President for Student Life. Special physical challenges, AIDS, TB, special psychiatric history are examples of circumstances that may require a special management response by the College. Confidentiality will be strictly observed. This requirement is made in the interest of assuring clear access, safety, and enjoyment of the campus by each student.

Campus Housing

Stevenson Hall and Lakeside Hall for men and Pfeiffer Hall for women are primarily double-occupancy facilities. A limited number of single/private rooms may be available; preference for these rooms is granted by request to those students having earned the greatest nun ber of credit hours. Twenty apartments are avai able for married students. All residents of St venson Hall, Lakeside Hall, Pfeiffer Hall, an College Courts are required to sign housing co tracts.

Students are expected to obey the terms c their housing contracts. A copy of this contra can be obtained in the office of the Dean of Stu dents.

The residence halls are closed during vacatic periods as specified in the academic calenda Students will not be allowed to remain in th residence halls during vacations. Students wi be required to turn in their keys during thes stated vacation periods. Anyone failing to do s will incur a financial penalty.

No student will be issued a room key, hal way, or outside door key unless he or she ha first signed a current housing contract. Key must be returned by the last day of the term c this agreement or the student's last use of th accommodations, whichever occurs first. An student failing to return a room key and/c apartment key will be charged a ten dolla ($10.00) fee. A twenty-five dollar ($25.00) fee wi be charged for loss of outside door key to cove the cost of changing the lock.

All unmarried (those with no dependent chi dren) full-time undergraduates under the age c 21 at the opening of the school year are require to live on campus. Commuting students are ex empted if living with parent(s) or if living wit legal guardian(s) who are over the age of 21 Commuting students living within a radius c approximately 75 miles of the campus are ex empted (typically commuters with prior lega addresses of one year or more in the counties c Knox, Clay, Bell, Whitley, Laurel, or Harla would be exempted). Exceptions to this require ment must be applied for IN ADVANCE in writ ing to the Dean of Students. Institutionally funded financial aid, grants, and scholarship are contingent on your being in compliance wit the above housing requirement. A $50.00 re fundable damage deposit is required for on-cam pus housing; this deposit should be directed t "Housing Office".

I.D. and Address Requirements

Every Union College student must maintai a current address listing with the Student Lif Office for emergency purposes and must be pre pared to show a current Union College I.D. car

n demand. Your I.D. card will be given to you uring Fall registration.

Counseling Services

Union College takes seriously its responsibil-y to provide for the diverse needs of its stu-ents. For this reason, the college has established network of counseling services in the following reas: academic advising, career planning and lacement, religious concerns, personal and psy-nological counseling.

The Office of Career Planning and Placement rovides services that are designed to help de-ne a student's career needs, objectives and oals. Services offered may include: occupa-onal advising, career interest testing, creden-als/placement file service, job search skills eminars, graduate and professional school in-ormation.

Pastoral counseling services are provided by n ordained minister or a licensed pastoral coun-elor. The campus chaplain is available for in-ividual and group sessions and is prepared to nake referrals as needed to other professionals. he college also offers the "On Campus Talking bout Alcohol" (OCTAA) program for students.

Arrangements for personal counseling serv-es can be made for all currently enrolled stu-ents. A psychological consultant provides and oordinates counseling services for emotional, nterpersonal, family, and social concerns. This ncludes emergency referrals to local area health esources when needed. The consultant also as-ists the Student Life Staff in organizing training vorkshops, peer counseling, and support roups as needed by the student community.

In the event of any questions or problems that nay arise, students are invited to call for private, rofessional consultation at no charge. A strict olicy of confidentiality is observed and main-ained rigorously.

The college also provides counseling support hrough a peer counseling program.

The Student Life Staff is one of the more visi-le groups of individuals in the student's daily fe. All staff members are prepared to assist stu-ents with special problems that may arise, and to connect them with the best available source of help within the college community.

Religious Life

Union College takes seriously its identity as a church-related institution and is concerned that its students be aware of the value of faith as well as academic excellence. We seek to be faithful to John Wesley's affirmation that a whole person is one who unites knowledge with continual renewal of faith. Union remains within that Methodist tradition.

Students are given many opportunities to participate in weekly Tuesday Chapel services. Fellowship groups include the Fellowship of Christian Athletes, United Methodist Student Fellowship, Newman Club, and Baptist Student Union. Various spiritual growth opportunities are available, such as Bible studies, covenant discipleship groups, retreats, prayer vigils, and premarriage seminars. The Religious Life Center, in the heart of the campus, provides a setting for informal meetings. The Chaplain is available for pastoral counseling and for referral with difficult problems.

The Willson-Gross Lectures and the Staley Distinguished Christian Scholar Lectures seek to bring outstanding speakers to the campus. The Religious Life Committee, composed of students, faculty, and staff, works with the Chaplain as an advisory group to ensure that religious life programs are appropriate to the needs of the students and the campus community.

Students are encouraged to worship regularly in the church of their choice and to participate in the various religious groups on campus and in the community.

Students are also encouraged to participate in community and world service projects during the year, such as world hunger relief, improvement of the quality of life in the Appalachian area, and community recycling. Mission trips are taken during each semester break helping with projects such as flood clean-up and housing renovation through Habitat for Humanity and the Christian Appalachian Project.

ACADEMIC CALENDAR 1995-96

Summer, 1995 - First Session

May 29, Monday	Memorial Day Holiday.
May 30, Tuesday	Advising and Registration.
	Late fee after this date.
	Students may register for both summer sessions.
	Classes begin on regular schedule.
	First meal — Breakfast.
	Residence halls open for new students at 8:00 a.m.
June 1, Thursday	Last day for schedule changes.
	Last day to register for first summer session.
June 14, Wednesday	Last day to elect credit/fail option.
	Last day to withdraw from a course with a grade of "W".
June 19, Monday	Orientation and Advance Registration for fall semester for new students.
June 30, Friday	Final Examinations.
	Students not registering for second summer session must check out of residence halls by 4:00 p.m.
	Last meal — Lunch
July 3, Monday	Final grades due by 12:00 noon.

Summer, 1995 - Second Session

July 3, Monday	Residence halls open for new students at 1:00 p.m.
July 4, Tuesday	Independence Day; no classes.
July 5, Wednesday	Late fee after this date.
	Advising and Registration.
	Classes begin on regular schedule.
	First meal — Breakfast
	Residence halls open for new students at 8:00 a.m.
July 7, Friday	Last day for schedule changes.
	Last day to register for second summer session.
July 15, Saturday	Orientation and Advance Registration for fall semester for new students.
July 20, Thursday	Last day to elect credit/fail option.
	Last day to withdraw from a course with a grade of "W".
August 4, Friday	Final Examinations.
	Residence halls close at 4:00 p.m.
	Last meal — Lunch
August 7, Monday	Final grades due by 12:00 noon.

Fall Semester, 1995

August 2, Wednesday	Last day to finalize advance registration for fall semester.
August 21, Monday	Student Life Staff training begins.
	Student Ambassadors' Retreat begins.
August 24, Thursday	Meeting for new faculty members; 10:00 a.m.
August 25, Friday	Faculty Meeting/Orientation and Registration Information; 9:00 a.m.
	Residence halls open 1:00-10:00 p.m. for NEW students only.
August 26, Saturday	ACT Test — 8:00 a.m.
	Residence halls open 10:00 a.m.-10:00 p.m. for NEW students only.
	First meal — Brunch
	Bulldog Welcome Weekend — 9:00 a.m.-10:00 p.m.

ugust 27, Sunday	Residence halls open 10:00 a.m.-5:00 p.m. for RETURNING students.
	Bulldog Welcome Weekend continues.
ugust 28, Monday	Advising for upperclassmen and freshmen.
	Registration for Fall Semester.
	Late fee after this date.
	Fall Orientation — 9:00 a.m.
ugust 29, Tuesday	Classes begin.
eptember 4, Monday	Labor Day; no classes.
eptember 5 — 8	Constitutes the first week for refund purposes.
eptember 7, Thursday	Last day for schedule changes.
	Last day to register for fall semester.
	Last day to apply for December and May graduation.
eptember 14, Thursday	Fall Convocation (required attendance by all full-time students); 9:30 a.m. — Conway Boatman Chapel.
ctober 17 - 18	Mid-semester examinations (classes meet on regular schedule).
ctober 19 - 22	Mid-semester grades due by 4:00 p.m. on October 20.
	Mid-semester weekend; no classes.
	Residence halls remain open; food service available.
ctober 23, Monday	Classes resume.
ctober 23 - 27	Counseling sessions with advisors.
	Classes meet on regular schedule.
ovember 2, Thursday	Advising and Advance Registration for spring semester.
ovember 8, Wednesday	Last day to elect credit/fail option.
	Last day to withdraw from a course with a grade of "W".
ovember 9, Thursday	Willson-Gross Lecture (required attendance by all full-time students); 9:30 a.m. - Conway Boatman Chapel.
ovember 17, Friday	Last day to finalize advance registration for spring semester.
ovember 21, Tuesday	Last meal — Supper
	Evening classes meet.
ovember 22, Wednesday	Residence halls close at 10:00 a.m.
ovember 22 - 24	Thanksgiving vacation; no classes.
ovember 26, Sunday	Residence halls re-open at 1:00 p.m.
	First meal — Supper
ovember 27, Monday	Classes resume.
ecember 9, Saturday	Final Examinations for Saturday classes.
ecember 11, 12, & 13	Final Examinations.
ecember 14, Thursday	Residence halls close at 4:00 p.m.
	Last meal — Lunch.
ecember 15, Friday	Final grades for fall semester are due by 12:00 noon.

pring Semester, 1996

anuary 7, Sunday	Residence halls open at 1:00 p.m.
	First meal — Supper
anuary 8, Monday	Academic Advising.
	Counseling and Orientation for new students.
	Registration for spring semester.
	Late fee after this date.
anuary 9, Tuesday	Classes begin.
anuary 15, Monday	Martin Luther King Day; classes subject to adjustment.
anuary 16, Tuesday	Martin Luther King Commemoration — 9:30 a.m.
anuary 15 — 19	Constitutes the first week for refund purposes.
anuary 18, Thursday	Last day for schedule changes.
	Last day to register for spring semester.
	Last day to apply for August and December graduation.
ebruary 29 and March 1	Mid-semester Examinations (classes meet on regular schedule).

March 7, Thursday	College Convocation (required attendance by all full-time students); 9:30 a.m. - Conway Boatman Chapel
March 8, Friday	Spring vacation begins at 4:00 p.m. Residence halls close at 4:00 p.m. Last meal — Lunch
March 17, Sunday	Residence halls re-open at 1:00 p.m. First meal — Supper
March 18, Monday	Classes resume.
March 18 — 22	Counseling sessions with advisors. Classes meet on regular schedule.
March 20, Wednesday	Assessment Day — Adjustment in class schedule. Evening classes meet.
March 27, Wednesday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
March 28, Thursday	Advising and Advance Registration for May Interim, Summer Sessions, and Fall Semester.
April 5 - 7	Easter vacation; no classes. Residence halls remain open; food service available. Brunch and Supper only.
April 8, Monday	Classes resume.
April 11, Thursday	Honors Convocation; 9:30 a.m. — Conway Boatman Chapel Last day to finalize advance registration for May Interim, Summer Sessions, and Fall Semester.
April 29, 30, and May 1	Final Examinations.
May 2, Thursday	Students not involved with Commencement and not registering for May Interim must check out of residence halls by 4:00 p.m.
May 3, Friday	Final grades for spring semester are due by 12:00 noon. Baccalaureate; 7:30 p.m.
May 4, Saturday	Commencement; 10:00 a.m. Last meal — Brunch

May Interim, 1996

May 5, Sunday	Residence halls check-in by advance arrangement with the Dean of Students' Office. Otherwise, check-in is at 8:00 a.m. on Monday, May 6.
May 6, Monday	First meal — Breakfast Registration for May Interim. Classes begin on regular schedule. Residence halls open for new students at 8:00 a.m.
May 7, Tuesday	Last day to register for May Interim. Last day for schedule changes.
May 10, Friday	Last day to elect credit/fail option. Last day to withdraw from a course with a grade of "W".
May 18, Saturday	Orientation and advance registration for Fall Semester for new students.
May 20, Monday	Last day to finalize advance registration for first summer session.
May 24, Friday	Final Examinations. Students not registering for first summer session classes must check out of residence halls by 6:00 p.m. Last meal — Supper
May 28, Tuesday	Final grades due by 12:00 noon.

ummer, 1996 - First Session

lay 27, Monday	Memorial Day Holiday; no classes.
lay 28, Tuesday	Advising and Registration.
	Late fee after this date.
	Students may register for both summer sessions.
	Classes begin on regular schedule.
	First meal — Breakfast
	Residence halls open for new students at 8:00 a.m.
lay 30, Thursday	Last day for schedule changes.
	Last day to register for first summer session.
ıne 12, Wednesday	Last day to elect credit/fail option.
	Last day to withdraw from a course with a grade of "W".
ıne 17, Monday	Orientation and Advance Registration for fall semester for new students.
	Last day to finalize advance registration for second summer session.
ıne 28, Friday	Final Examinations.
	Students not registering for second summer session must check out of residence halls by 4:00 p.m.
	Last meal — Lunch
uly 1, Monday	Final grades due by 12:00 noon.

ummer, 1996 - Second Session

une 30, Sunday	Residence halls check-in by advance arrangement with the Dean of Students' Office. Otherwise, check-in is at 8:00 a.m. on Monday, July 1.
uly 1, Monday	Late fee after this date.
	Advising and registration.
	Classes begin on regular schedule.
	First meal — Breakfast
	Residence halls open for new students at 8:00 a.m.
uly 4, Thursday	Independence Day; no classes.
uly 5, Friday	Last day for schedule changes.
	Last day to register for second summer session.
uly 15, Monday	Orientation and Advance Registration for fall semester for new students.
uly 18, Thursday	Last day to elect credit/fail option.
	Last day to withdraw from a course with a grade of "W".
August 2, Friday	Final Examinations.
	Residence halls close at 4:00 p.m.
	Last meal — Lunch
August 5, Monday	Final grades due by 12:00 noon.

Residence halls will not close during the period from the end of Spring Semester through Summer I. Food service, however, will not be provided during the short periods between these terms.

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Henderson, KY

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Louisville, KY

FACULTY TRUSTEE

Thomas J. McFarland, Ph.D.
Barbourville, KY

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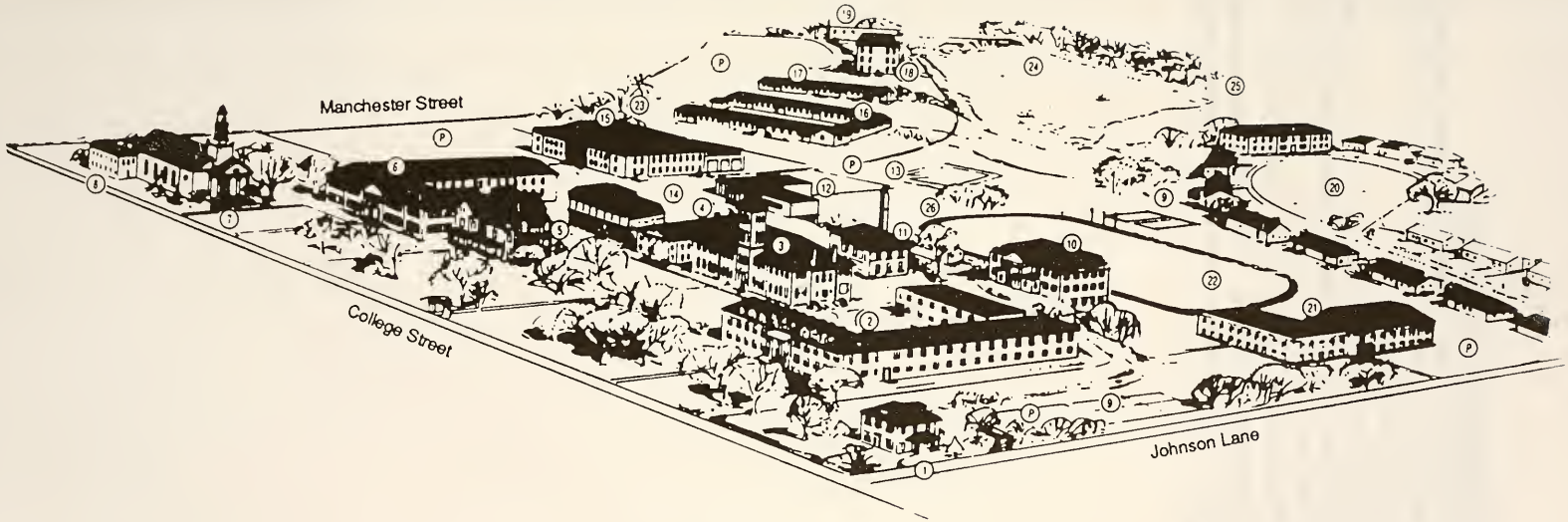

P. Parking
1. Baldwin Place, President's Residence
2. Stevenson Hall, Men's Residence Hall
3. Centennial Hall Historic Landmark, Classroom Building
4. Abigail E. Weeks/Milton H. Townsend Memorial Library & Annex
5. Speed Hall, Administration Building
6. Pfeiffer Hall, Women's Residence Hall
7. Conway Boatman Chapel
8. Fine Arts Building
9. Tennis Courts
10. Soldiers and Sailors Intramurial Center
11. Campus Post Office/Data Processing Center
12. Patridge Student Center & Minton Cafeteria
13. Colonel Harland Sanders Baseball Field
14. Religious Life Center
15. Physical Education Building, Gym, and Swimming Pool
16. College Courts, Married Students' Apts.
17. College Courts, Faculty and Staff Apts.
18. Lakeside Hall, Men's Residence Hall
19. Lakeside Social Sciences Center
20. College Park Drive, Faculty & Staff Residences
21. Mahlon Miller Science Center
22. Burch-Nau Football Field
23. Football Offices/Weight Training Facility
24. Maintenance Building & Shops
25. College and Community Recreation Park
26. Jack C. & Juanita Phillips Athletic Complex

Catalog Disclaimer Statement

While this catalog was prepared on the basis of the best information available at the time of pub cation, all information - including statements of fees, course offerings, admissions and graduati requirements - is subject to change without notice or obligation.

Full-time students continuously enrolled at Union College ordinarily may expect to graduate und the requirements stipulated in the catalog under which they entered. Students failing to enroll for period longer than two years will fall under the catalog in effect when they return to full-time statu Students may appeal to the Vice President for Academic Affairs for exceptions to this policy.

The statements in this catalog are for information only and do not constitute a contract between t student and Union College. **Failure to read this bulletin does not excuse the student from the requir ments and regulations described herein.**

UNION
COLLEGE
310 College St.
Barbourville, KY 40906
(606) 546-4151

UNION
COLLEGE

Union College Graduate Program

1995-1997

The First College in the Kentucky Mountains

Barbourville, Kentucky

UNION COLLEGE

1995-1997 Graduate Catalog

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Admission Bulletins, Schedules	Dean of Graduate Academ
Alumni Affairs	Director of Alu
Payment of Fees	Director of Student A
Housing Student Welfare	Dean of
Financial Aid	Director of Finan
Transcripts, Academic Records, Veterans Affairs, Certifications	

TELEPHONE COMMUNICATION

A campus-wide network of telephones enables the caller to reach any administrative or faculty office by dialing the central switchboard.

Central Switchboard	(606) 5
Registrar's Office	(606) 5
Graduate Office	(606)
Fax Number	(606)

Union College is accredited by the Commission on Colleges of the Southern Associ Colleges and Schools to award Associate, Bachelor's, and Master's level degrees Kentucky State Department of Education, and is approved by the University Senate Methodist Church.

It is the policy of Union College not to discriminate on the basis of sex, race disability, age, or national or ethnic origin in the admission of students, in its administ of educational programs, scholarships, loan programs, or other school-adm programs, or in athletic participation. Inquiries should be directed to Mr. Edward H Affirmative Action Officer.

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Welcome to Union College

R. and MRS. JACK C. PHILLIPS

We appreciate your interest in the Graduate Studies Program of Union llege. The graduate program was approved by the faculty in October 59, and began operations in 1960. In 1962 the first graduates, totaling ven students, received the Master of Arts in Education degree.

Since that time, the number of students has increased substantially. ion College is committed to academic excellence, a philosophy which rmeates the offerings included in the Master of Arts in Education degrees d the Rank I Program.

Many educators in Southeastern Kentucky, Southwestern Virginia, and nnessee have chosen Union College to work on their advanced programs. invite you to become involved in our Graduate Studies Program. Should u wish to enter our College, we believe your experience will be a ofitable and happy one.

Sincerely,

Jack C. Phillips
President

A History of Service

Union College was founded in 1879 by a group of progressive citizens of Barbou who formed a stock company and secured the main part of the present campus. In 188 first building was formally opened on the site of what is now known as Centennial Hal

The College was purchased by the Kentucky Conference of the Methodist Epis Church in 1886, and Daniel Stevenson was made president of the reorganized instituti major bequest from Mrs. Fanny Speed led to the construction of Speed Hall, Steve Hall, and the Classroom Building (now known as Centennial Hall).

The college department was discontinued in 1908, and for eight years the instit was maintained as a Junior College, an academy, and an elementary school. It beca bona fide college again in the presidency of Ezra T. Franklin, who inaugurated a progr development during which the Memorial Gymnasium and a home for the president built. In 1927, the College was credited by the University of Kentucky as a four college of A grade.

President John O. Gross emphasized the improvement of the curriculum an building of a strong faculty. In 1931, Union was accredited by the University Senate Methodist Episcopal Church, and in 1932, full accreditation was realized when it was a member of the Southern Association of Colleges and Schools. The Board of Reger the University of the State of New York placed Union College on its accredited list in 1

In Conway Boatman's twenty-one years of leadership, the College achieved m progress in both its educational programs and in plant improvement. Seven new buil were completed and others were enlarged. The curriculum was expanded, endowment were increased, and a markedly improved program of faculty salaries and benefits adopted.

Mahlon A. Miller was elected to the presidency in 1959. In 1960, a Master of A Education degree program was introduced, and plant expansion continued with the dev ment of College Park, a faculty residential area, followed by the construction of addit student housing, a physical education building, a student center, and a science center, pleted in 1973.

President Jack Carter Phillips began his duties at Union College in January, 1983.

Dr. Phillips earned the Bachelor's Degree at Birmingham-Southern College an Master of Divinity Degree at Vanderbilt University. He received an honorary Doct Laws Degree from Union College in 1981. He was lauded at that ceremony for "no achievement in the field of institutional fund raising and, in particular, service t colleges and universities related to the United Methodist Church."

A native of Scottsboro, Alabama, Dr. Phillips served in the U.S. Marine Corps 1954 to 1957.

Recently the College completed in a $3 million building program including a million cafeteria/Student Center, renovation of the Soldiers and Sailors Mem Intramural Center, creating of soccer, baseball, women's softball, and men's football fi the building of a new organ for the Chapel, and telescopic seating in the gymnasium. T is now a commitment to increase the endowment by $10 million, $5 million for studen and $5 million for faculty enrichment.

Under Dr. Phillips' leadership the College has experienced significant enroll increases every year. A new 37,000 square foot library addition with computer facilitie a modern well equipped learning resource center opened in 1987.

The College has always accepted a special mission to Appalachia, a commit which is now being strengthened with unique academic programs based on reg characteristics, expanded student financial aid, student community-service projects, new career-oriented curricula.

The doors of Union College are open to those who aspire to a more fulfilling life, out regard to race, color, sex, disability, national or ethnic origin.

Statement of Purpose

(Mission Statement)

Union College is an independent liberal arts institution of higher education affiliated ı the United Methodist Church. It is dedicated to maintaining an academic environment stimulates intellectual curiosity and scholastic competence, encourages Christian ıes, and underscores the worth and responsibilities of education and the individual. The lege admits students without regard to race, color, creed, age, sex, or disability.

Union College commits itself to providing students with a sound education. The faculty ɔodies scholarship and dedication to student needs and achievements. Small classes w attention to the individual. Faculty advisers assist each student in developing career ls and a plan of study appropriate to these goals. Students have access to many scholarly technical resources, to personal, career, and academic counseling, and to a faculty resenting a variety of models of intellectual accomplishment.

The College has designed its academic program to provide its students with the ortunity to broaden their knowledge of their own and other cultures, and to obtain the llectual skills necessary for a career. The undergraduate Liberal Education Core, uding the fields of humanities, natural sciences, and social sciences, promotes breadth earning and serves as the foundation for the pursuit of individual majors. Plans of study ɔre-professional and technical fields prepare students headed for post-graduate study or immediate employment. A strong developmental program attends to gaps in academic ɔaration. Union offers graduate programs in education for the further preparation of both chers and administrators. As a vital part of its service to the surrounding area, outreach udes a community education program, linkages with area school districts, selected rses offered at regional locations, and provision of several associate degrees. In its ımitment to the United Methodist Church, Union College provides pre-ministerial ning and support services to local churches.

Although Central Appalachia is Union's primary service area, the college intentionally uits students from numerous states and foreign countries who enrich and diversify the lege community. In order to inform people about Appalachian life, traditions, and blems, the College offers Appalachian studies for its own students and those from other itutions of higher education.

As a cultural center, as a resource for its area, and as a rigorous academic environment, on College pursues its mission to serve both students and community.

A Statement of Values

Union College is dedicated to preparing students for living informed, socially us personally fulfilling, and spiritually vital lives. This commitment involves using k ledge within a context of Christian values. Although it is recognized that as an educat institution Union College has an obligation to help students understand other value sys and their effects when translated into specific areas of human activity, as a U Methodist Church-related college Union affirms an institutional stance based on Chri values such as have evolved in the Judeo-Christian tradition and are contained in the and New Testaments. Our intent is both to confess and to practice the Christian faith i our endeavors.

IMPLICIT IN THIS STATEMENT OF VALUES IS THE REQUIREMENT T UNION COLLEGE COMMIT ITSELF TO THE VALUES ENUNCIATED ASSURING TO THE MAXIMUM EXTENT POSSIBLE:

To Its Students

(1) the fullest of opportunities to receive a quality liberal arts education.
(2) strong attention to, and genuine concern for, each individual in the college commun including emphasis upon the unique value of each person.
(3) a continuing concern that they learn to appreciate and accept life styles that reflect integrity, honesty, compassion, and social responsibility.
(4) a commitment to provide the experiences necessary to acquire a meaningful unders ing of and dedication to Christian love and service to both God and neighbor.

To Its Faculty and Staff

(1) a campus atmosphere of responsible academic freedom dedicated to the constant se for truth.
(2) an academic community dedicated to openness and acceptance of its pluralistic composition, including personnel policies and practices that are recognized without regard to race, creed, sex, color, physical handicap, or national origin.
(3) a constant remainder of the power of Christian example.

To Its Alumni, Benefactors, and the Parents of Students

(1) faithful and responsible stewardship of all funds and gifts entrusted to the college.
(2) continuance of meaningful traditions, particularly those unique to a church-related institution, while at the same time encouraging the exploration and implementation new value-centered activities especially of the type that have strong Christian relati ship.
(3) continuing appreciation for the rich heritage of Union College as an independent, one-sectarian, church-related institution in the Christian tradition.

To The United Methodist Church

(1) acceptance of Jesus Christ as God's revelation of himself, and of the Holy Spirit as God's continuing presence in life.
(2) acceptance of the moral standards which have evolved in the Judeo-Christian traditi as our ideals for living, working and witnessing in an academic community and as t standards for our teachings and person example.

sensitivity to and a conscientious effort directed toward the satisfaction of the spiritual needs and concerns of the college's students, faculty, and staff.
meaningful responsiveness to and support for the United Methodist Church.

Barbourville, Knox County, and the Appalachian Area
continuing appreciation that Union College is an integral, social, educational, and spiritual part of the Barbourville and Knox County communities, and of Appalachia.
dedication of the college's resources in teaching, research, and service to the enrichment of the communities of which Union College is a vital part.
a commitment of the personal resources represented by the colleges students, staff and faculty to local churches of the immediate and larger community.

Goals of Union College's Graduate Program

The Graduate Program at Union College is dedicated to serving area educators by ncing their ability to work effectively with students, parents, educators, and community ers; by providing advanced knowledge in professional studies and academic areas of hasis; and by offering leadership in improving teaching skills. To accomplish these d goals the graduate program has adopted a series of more specific objectives.
Those who complete Union College's Graduate Program will possess the following butes:

An understanding of educational research methods and the ability to apply research findings.
An understanding of the historical events and philosophies that have impacted on the development of American education.
An understanding of curriculum theory and design and the ability to apply this knowledge.
An understanding of human development (including cognitive, affective, and psychomotor domains), its impact as the child progresses through the education system, and the ability to apply this knowledge.
An understanding of learning theory and the ability to apply this knowledge.
An advanced understanding in the student's academic or professional area of specialization.
An understanding of current educational issues.
An understanding of special needs students and the ability to apply this knowledge.
An understanding of multi-cultural issues and ethnic differences, and the ability to apply this knowledge.
An understanding of technology in education and the ability to apply this knowledge.
An understanding of the dynamics of educational policy and organizations.

Graduate
Academic Calendar
1995-1996

FALL SEMESTER, 1995

August 2, Wednesday	Last day to finalize advance registration for fall semester.
August 29 - 31	Graduate Registration; 2:00 - 5:30 p.m.
August 31, Thursday	Classes begin.
September 4, Monday	Labor Day; no classes.
September 5 - 8	Constitutes first week for refund purposes.
September 11	Graduate Registration; 2:00 - 5:30 pm
September 18, Monday	Last day for schedule changes.
	Last day to register for fall semester.
	Last day to apply for December 1995 and May 1996 graduat
October 7 Saturday	Written Exercise.
October 19 - 22	Mid-semester weekend; no classes.
October 23, Monday	Classes resume.
November 8, Wednesday	Last day to withdraw from a course with a grade of "W".
	Advising and advance registration for spring semester.
November 18, Saturday	M.A. Comprehensive Examination, 8:00 a.m.
November 22 - 24	Thanksgiving vacation; no classes.
December 3, Friday	Last day to register in advance for spring semester.
December 9, 13, 14, & 15	Final Examinations.

SPRING SEMESTER, 1996

January 9 - 11, & 15	Graduate registration; 2:00 - 5:30 p.m.
January 11, Tuesday	Classes begin.
January 15 - 19	Constitutes first week for refund purposes.
January 22, Monday	Last day for schedule changes.
	Last day to register for spring semester.
	Last day to apply for August 1996 and December 1996 gradu
February 3, Saturday	Written Exercise.
March 11 - 17	Spring vacation.
March 27, Wednesday	Last day to withdraw from a course with a grade of "W".
March 28, Thursday	Advising and advance registration for May Interim and Summer Sessions.
April 5 - 7	Easter vacation.

ril 6, Saturday	M.A. Comprehensive Examination; 8:00 a.m.
ıy 29, 30 & May 1	Final Examinations.
ıy 4, Saturday	Commencement; 10:00 a.m.

MAY INTERIM, 1996

ıy 6, Monday	Graduate registration; 2:00 - 5:30 p.m. Classes begin on regular basis.
ıy 7, Tuesday	Last day to register for May Interim. Last day for schedule changes.
ıy 10, Friday	Last day to withdraw from a course with a grade of "W".
ıy 23, Thursday	Final Examinations.

SUMMER, 1996 - FIRST SESSION

ıy 27, Monday	Memorial Day; no classes.
ıy 28 - 30	Advising and registration - students may register for both summer sessions. Graduate registration until 5:30 p.m. Classes begin on a regular basis. (May 28)
ıy 30	Last day for schedule changes. Last day to register for first summer session.
ne 12, Wednesday	Last day to withdraw from a course with a grade of "W".
ne 14, Friday	Written Exercise.
ne 17, Monday	Last day to finalize advance registration for second summer session.
ne 27 & 28	Final Examinations.

SUMMER, 1996 - SECOND SESSION

ly 1, Monday	Advising and Registration-classes begin on regular basis. Classes begin on regular schedule.
ly 3, Wednesday	Last day for schedule changes. Last day to register for second summer session.
ly 4, Thursday	Independence Day; no classes
ly 8, Thursday	Last day to withdraw from a course with a grade of "W".
ly 19, Friday	M.A. Comprehensive Examination, 8:00 a.m.
ıgust 1 - 2	Final Examinations.

General Information

Location of the College

Union College is located in Barbourville, a residential town of 3,500, on U.S. Highway 25E, midway between Lexington, Ky., and Knoxville, Tenn. The historic Wilderness Road runs along the eastern edge of the campus. The Dr. Thomas Walker State Park is four miles from the campus and in adjoining counties are the Cumberland Falls State Park, the Levi Jackson State Park, and the Pine Mountain State Park.

Graduates students may enroll for a portion of their work in courses offered in off-campus centers in a number of nearby communities.

Library and Learning Resource Center

The Weeks-Townsend Memorial Library provides a variety of resources and servi to support and enrich the College's academic programs. The library, located in the cente campus, houses a collection of more than 100,000 books, periodicals, governm documents, audio-visual materials, and computer databases. Library functions, includ public catalog access, circulation, acquisitions, and serials control, are fully automa through the Sirsi Unicorn Collection Management System. Eight public cata workstations are positioned throughout the library, and dial-in access is available patrons with modern-equipped personal computers. The library can accommodate over 3 persons in a variety of seating arrangements, including study carrels, tables, group settii and an audio-visual classroom.

The Learning Resource Center is housed within the Library and includes non-pr media and audio-visual equipment. The equipment includes a satellite dish providing acc to C-ban and Ku-ban satellite transmissions and a video editing system. The LRC provi educational media materials for classroom use and individualized study. The library st offers individual and group instruction in the use of equipment and materials.

The Library contains several special collections. The most recently added collection is the Cumberland Gap Genealogy Collection, consisting of local genealogy and history information. Additional collections include the Lincoln-Civil War Collection, the Curriculum Collection, the Music Library and the Science Reading Room. The library also serves as the repository for the College Archives.

The Weeks Memorial Library participates in state, regional, and national networks, including the Kentucky Library Network and the Southeastern Library Network. The library staff is dedicated to providing members of the Union College Community the information resources needed to meet their educational goals.

nter for Economic Education

The Center for Economic Education is located on the second floor of Centennial Hall. a member of the Kentucky Council on Economic Education (KCEE) and its national nterpart, the Joint Council on Education (JCEE), Union College maintains this Resource ter for teachers in all grades. It includes a repository for free materials which are ilable for teachers who wish to utilize them in their classrooms.

Some examples of materials in the Center are computer programs, both Apple and 1, for all grade and skill levels, videotapes which may be borrowed or copied by hers, and a wide variety of written publications. Three courses in economic education available for teachers, most of whom may qualify to receive a partial tuition scholarship completion of each course, and these courses may be used by teachers at any level of ification for that purpose.

mputer Facilities

The College has a variety of computers available for student and faculty use, including HP-3000 minicomputer, an AT&T Unix-based Microcomputer and numerous rocomputer systems. Five microcomputer laboratories on campus are used for ruction and are available for student and faculty use when not being used for classes. ee are located in Centennial Hall. In Room 200, IBM-compatible and 386 rocomputers are available for general use approximately sixty-eight hours each week, luding late afternoons and evenings - Monday through Friday - and weekends. A novell work system provides numerous opportunities for computer users. In Room 209 the Ray Hensley Business Simulation Center is located. The center contains microcomputers, a nner, a laser printer and telecommunication capabilities. The Teagle Writing Lab is ated in Room 107. The laboratory is equipped with 20 Macintosh microcomputers and a r printer that are used for writing courses and student use.

The fourth microcomputer laboratory is located in the Mahlon A. Miller Science nter and contains Apple IIe's, and a terminal to the AT&T system.

The Behavioral Science Computer Center is the fifth and newest lab to be installed at ion College. It contains seventeen 486 workstations linked to a pentium chip server, high ed laser printer, a computer display projection unit, and a multi-color plotter.

The Computer Information Systems Program also operates the AT&T system. CIS jors have the opportunity to gain hands-on experience in the operation of this system. ditional microcomputers are available for use in other areas. A Macintosh and an Apple S are used in the Learning Lab for tutoring and remedial instruction. An Apple IIGS is d by the Music Department in the teaching of its classes, and Apple IIe and an IBM PC available for use in the various science laboratories.

Most administrative offices use microcomputers connected to the College's ninistrative minicomputer to assist them in their duties.

ampus Activities

Student activity fees are not required of graduate students; however, graduate istants, graduate students living on campus, and those residing near the campus are ouraged to take part in social and cultural functions of the college.

egistration

Students seeking course credit must be admitted to the graduate program or have a siting Student Permit. For details, please refer to the section on Admissions. Former ion College graduate students who have not been in attendance during the past year must ly for re-admission and update their records in the Graduate office.

Course registration enrollment may be completed on campus or by mail during the iod of advance registration. Students are advised to register early. After this period, istration must be completed in person. There is no registration or change of program by one.

Whenever the course enrollment has been entered on the computer registration sy the student is responsible for payment of assessed charges unless a drop/add form or a requesting withdrawal is submitted to the Registrar within the dates listed in the Acac Calendar.

Drop/Add or Withdrawal

Notice of any changes in the student's initial computer registration program or of withdrawal from the college, must be given to the Office of the Registrar in writing. l request, the Registrar will provide withdrawal forms which should be signed by the r advisor and filed in the Registrar's Office. Deadlines for changes are given in the Acad Calendar.

Attendance

Students are expected to attend all classes for which they are registered anc responsible for absences incurred by late enrollment. Students should avoid registerin courses which meet at times that conflict with anticipated teaching, administra coaching, or other duties at their respective schools or places of employment.

Inclement Weather Policy

Whenever weather conditions necessitate the cancellation of classes, a decision wi made as early as possible so that radio and television stations can notify listeners in areas. Should the situation change during the day the Graduate Office will get the wor to faculty members and students through local radio and television. Attempting to phon Graduate Office will overload the college switchboard and result in delay and frustra Often phone networks can be set up at the beginning of the term by individual classes.

Unless notification is made as indicated above, normal class schedules wil maintained.

Application for Graduation

Application for graduation must be made in the Office of the Registrar according t following schedule. Students planning to complete all requirements for the May comme ment should make application at the beginning of the prior fall semester. Those plannir finish during the summer terms should make application at the beginning of the sp semester. Those completing all degree requirements during the fall semester participate in the following May commencement.

Students who complete all requirements in the spring or summer term may partici in the May commencement. Those failing to participate are required to pay an absentia (see fee under financial information).

M.A. and Fifth-Year students who earn a 4.0 grade point average are recognize commencement with gold honor cords. Rank I candidates with Directed Field Projec exceptional merit are recognized at commencement with gold honor cords.

Transcripts

The college regards the student's transcript as a personal and private document; released only on the written authorization of the student and payment of the required Requests for transcripts should be made directly to the Office of the Registrar, and sh include the full name, social security number, and dates of attendance. When off transcripts are sent directly to the student, they are stamped "Issued to Student." Finar obligations to the college must be cleared before a transcript is issued. A $3.00 fe charged for each transcript.

:ademic Records

nily Education Rights and Privacy Act

The following policy is in accord with Kentucky Revised Statute 164.283, the Family ıcation Rights and Privacy Act of 1974 (Public Law 93-380) as amended (Public Law 568), also known as the Buckley Amendment, and the regulations formulated by the ;. Department of Education

Union College provides eligible students or their parents, when applicable, with the ›ortunity to review the student's education records, to seek correction of information ıtained in these records, and to limit disclosure of information from the records.

Eligible students or their parents, when applicable, may file a complaint with the U.S. partment of Education if any of their rights under the Family Educational Rights and vacy Act of 1974 have been violated. Information concerning the rights enumerated in act, as well as information concerning complaint procedures, is available in the gistrar's Office.

The College will release directory information to the general public in response to a itimate request unless the student concerned files a written request with the Registrar that h information be withheld from the public. Directory information is defined as student ne, address, classification, telephone number, dates of attendance, date and place of h, degree(s) earned, previous educational institutions attended, and honors and awards eived.

The Privacy Act also prohibits the distribution of grades to parents or guardians hout a student's prior written consent, or a statement of dependency from parent or rdian when the student is a dependent as defined under the Internal Revenue Code.

Union College will, however, release records and accounts pertaining to veterans, as l as to other students, to appropriate U.S. government representatives. This exception to other federal laws is found in Title 38 of the U.S. Code, Section 1790(c).

ıtomobiles - Parking

The college maintains paved parking lots for the use of commuting and resident dents. Automobiles parked on campus must be registered in the Business Office and st display an official Union College parking permit on the rear window on the driver's e. This applies to part-time as well as full-time students. Permits may be obtained free of rge in the Business Office. Cars must be parked in designated areas only. The parking as in the interior section of the campus adjacent to Centennial Hall and the Maintenance ilding are restricted to delivery/service and motor pool vehicles, handicapped parking, l other authorized vehicles. City police enforce the no-parking regulation on College eet in front of the campus. Violation of campus parking regulations may result in fines rged against the student's account or in towing at the owner's expense.

acement Services

The Career Planning and Placement Office offers assistance to current students and mni in securing positions relative to their background, interests, and qualifications. The ice offers guidance in career planning and practical assistance in developing placement s, including resumes and letters of application.

All alumni and current students enrolled in degree or certification programs are eligible register. Registration is neither automatic nor compulsory; it must be initiated by the ividual. There is no charge for registration.

Students are advised to develop a placement file while they are in attendance at the llege, when they can readily obtain references from faculty members. Files of inactive istrants are retained in storage for future use. Inactive registrants may add references at time and may have their credentials forwarded to prospective employers.

The office is located in Room 104 in Centennial Hall.

Bookstore

The Bulldog Bookstore is located on the lower level of the Frances Patridge Stu Center. Regular hours are 9:00 a.m. to 4:30 p.m., Monday through Friday, with exter hours during registration periods. Summer hours may be shorter. The bookstore st textbooks, materials and supplies, clothing, and a variety of gift items. Textbook ref periods and buy-back policies are posted.

Housing and Food Service

Full-time graduate students may elect to live on campus or obtain their own facilitie the community. Residence Hall rooms are available and may be obtained through co with Dean of Students. All students living in the residence halls are required to obta boarding ticket and eat in the college dining hall.

A limited number of one-bedroom apartments are available for students with not n than one child. Pets are not allowed. Applications for apartments should be mad advance with the Dean of Students.

The Myrtle Cole Minton Cafeteria is located on the lower level of the Frances Patri Student Center. All meals are served cafeteria style. Hours of operation and meal prices posted in the dining room. Commuting students are welcome in the dining room and purchase individual meal tickets at the door. A snack bar is also located on the lower l of the Student Center.

Financial Information

The academic year includes two fifteen-week semesters, a three-week May Interim sion, and two five-week summer sessions. Below are applicable charges and fees.

egular Semester Expenses (1995-96)

Tuition, per semester hour (less than 12 semester hours)	$180
Tuition, full time (12 or more semester hours)	4,100
Room and Board (19-meal week)	1,520
Private room (additional)	175
Married student apartment (per month, including utilities)	180
Activity fee (fulltime students)	35

mmer Session Expenses (1995)

Tuition, per semester hour	180
Room and board (15-meal week)	390

ay Interim Expense (1996)

Tuition, per semester hour	180
Room and board (19-meal week)	240

es

Admission application fee	15
Late registration fee	15
Graduation	20
Regalia Fee to be determined	
Graduation-in-absentia fee	70
Audit fee, per semester hour	15
M.A. Comprehensive Examination fee	5
Transcript (per copy, after first free copy)	3

Room and board charges are prorated for courses with irregular time schedules.

Fees and other expenses to be paid by students, as listed above and elsewhere in this catalog, are reviewed periodically and are subject to change.

Payment Policy

Financial Clearance

A student will be cleared for registration only if any previous balance has been p The new semester's account must then paid in full, or a signed payment plan and installment completed.

Authorized financial aid for the fall and spring semesters will be credited to student's account and a payment plan set up for the balance. In case the financial a anticipated but not yet authorized, the student must pay as a first installment one-thir the total costs.

A student having any unpaid balance will not be cleared for the release of an off report of grades, a transcript of credits, or a diploma.

Finance Charge

A monthly finance charge of one and a half percent (18% annual rate) will be add the unpaid balance on all student accounts at noon on the last working day of each mont

Payment Plan

If the new semester's account cannot be paid before registration, a payment plan ca completed and a first installment paid down. The payment plan requires one-third payr on each of the following dates after which the student may be withdrawn from cours the account is not paid up:

Fall and Spring Semesters

(1) On or before fall semester or spring semester registration - one-third.
(2) Due September 21st (fall semester) or January 21st (spring semester) - one-th
(3) Due October 21st (fall semester) or February 21st (spring semester) - one-third

Summer sessions and May Interim must be paid in full at the date of registrat no payment plan is permitted for summer or short sessions. Any student who ow balance on his or her account after November 15th (fall) or March 15th (spring) ma subject to withdrawal procedures.

Refund Information

Since faculty contracts and other commitments are made by the College for the e year in advance, the following refund schedule has been established in order that College and the student may share the loss equitable when it is necessary for a stude withdraw or make a change in his or her program.

(1) A student is considered to be enrolled until he or she completes drop/withdraw procedures. These procedures must be completed in person or by mail. Neces forms must be obtained from the Office of the Registrar. All refunds will be b on the date these drop/withdrawal forms are completed and returned to the Off of the Registrar.

(2) A full refund may be obtained for a class only if a student has not attended bey the first session and completes drop/withdrawal procedures with the Office of t Registrar.

) Any portion of board charges unused up to date of withdrawal will be refunded, except that a full week's board will be charged for any fraction of a week.

) Tuition and room charges will be refunded on the following basis:

Regular Semester - Twenty percent of the total for tuition and room will be charged the first week, 40% the second week, 60% the third week, 80% the fourth week. No refund will be given after the fourth week. Any part of a week will be treated as a full week. Refund is based on the tuition charges less $10 student center allocation, $1 class dues, $1 student senate fee, $3 for I.D. card and $25 activity fee.

Summer Session and May Interim - Withdrawal up to the end of the first week will permit a 50 percent refund. No refund will be made after the end of the first week. Any part of a week will be treated as a full week.

) **Refund of Overpayment on Student Accounts** - If a student makes an overpayment on his or her account, a written request for refund must be submitted to the Business Office within one year after the end of the last academic term for which the student was enrolled.

) **Room Reservation Deposit** - This deposit will be refunded if the request is made in writing not later than August 1 for the fall semester or 30 days before the opening of any other semester for which the contract is first effective. Students, once enrolled, must submit a written request to the Dean of Students indicating that the depositor is no longer enrolled as a student at Union College and that he or she has left the housing facility undamaged and does not owe other bills. The request for this authorization must be made within one year after the end of the academic term for which the student was enrolled.

inancial Assistance

Eligibility for the Stafford Loan is determined by filing the Free Application for deral Student Aid (FAFSA) with the Financial Aid Office 30 days prior to enrollment. afford Loans are then processed through the student's home bank. After October 1, 1992, e interest rate for first-time borrowers will be variable but not to exceed 9%. Repayment gins six months after the student graduates or drops below the eligibility requirement of hours enrollment.

Students eligible for Veterans Benefits should contact the Registrar for information ncerning procedures required to receive those benefits.

Students achieving a 4.0 average for all coursework taken as part of their Masters egree or Fifth Year Certificate will receive the last class of their Rank I free if all work ward Rank I is taken at Union College. Application must be made through the Graduate fice.

Students achieving a 4.0 average for all coursework taken as part of their Rank I will ceive the first class after the completion of their Rank I free if all coursework towards nk I is taken at Union College. Application must be made through the Graduate Office.

Admissions

General Requirements

Applicants for admission to the Graduate Studies Program may enter at the beginni of each academic semester, interim, or summer session.

Admission to graduate study does not imply admission to candidacy for the Maste Degree.

For admission as a regular graduate student an applicant must have completed requi ments for a Bachelor's Degree at an accredited institution with a grade point average (GP of 2.5* or better. In addition to completing the general application, the applicant m arrange for the graduate office to receive:

1. Application Fee. Payment of the non-refundable $15 application fee.
2. Transcripts. Two official transcripts of all undergraduate and all graduate work completed must be sent directly to the Graduate Office by the institutions where the credit and degrees were earned. If the transcript from the last institution indicated the forme work taken by the applicant, including grades received, only that transcript is requirec
3. References. At least two letter of reference are required from individuals who can atte to the applicant's academic and/or professional capabilities. Forms may be obtained in the Graduate Office.
4. Teaching Certificate. A copy of a valid teacher's certificate indicating areas in which t applicant is qualified.
5. Planned Program. A planned program signed by the Graduate Dean and Advisor.
6. Entrance Examination. Scores from the Core battery of the National Teacher's Examir tion or the Graduate Record Examination (GRE) within the past four years acceptable within state guidelines.

*All grade point averages in this catalog are based on a four-point scale.

Fifth-Year Certificate

In addition to the above general requirements, students applying for admission t Fifth-Year Program must provide official evidence of the completion of an initial teac certification program.

Master of Arts in Education Degree

The requirements for admission to the Master of Arts in Education Degree Program the same as those specified in "General Requirements" above, with the following additio

The undergraduate transcript should indicate that a minor of 21 semester hours been completed in the field of teaching desired in the student's Master's Degree Program this condition is not met, the student may be admitted conditionally.

In order to qualify for full admission, the student may need to complete the defici undergraduate course work in addition to the graduate level courses prescribed for the M degree.

Rank I

Applicants for admission to a program leading to the awarding of a Ran classification must have completed requirements for the M.A. in Education Degree or Fifth-Year Certificate. A GPA of 3.0 is necessary for unconditional admission to program.

Elementary school teachers who have earned the Fifth-Year Certificate, but do possess a Master's Degree in Education are not eligible for admission to certifica programs in administration or supervision.

ncertified Admission

A limited number of students who do not possess teaching certificates may be admitted the Graduate program for the primary purpose of improving their academic background. timately, these applicants may obtain certification, provided they complete all of the urse work and student teaching specified for the desired teaching certificate.

onditional Admission

Applicants with GPA below the minimums specified for these programs may be proved as "conditional admissions". In such cases, the students must prove their ability earn at least 3.0 GPA upon completion of the first 12 semester hours of graduate credit. ilure to achieve the 3.0 GPA level within the allowable 12 hours shall result in the commendation that the student withdraw from the Program.

dmission to Candidacy

Admission to any program leading to the Master's degree is not equivalent to admission candidacy for the Master's degree. Students must file an application for admission to ndidacy for the M.A. degree and complete the candidacy requirements before registering r courses beyond twelve semester hours.

Admission to candidacy for the Master's Degree requires formal application to the fice of Graduate Academic Affairs, completion of the requirements listed below, and proval of the Graduate Council. The application is available in the Office of Graduate ademic Affairs.

Shown an aptitude for graduate study by the completion of 12 semester hours of graduate work with a grade point average of at least 3.0.

Satisfied any deficiency in oral or written English that has been reported by a member of the faculty.

Successfully complete the written exercise administered by the Office of Graduate Academic Affairs. The exercise will require each student to compose an essay on a topic drawn from choices provided by the Department of English. The essay will be rated on three criteria: (a) content, (b) structure, (c) style.

ransfer Credit

A maximum of nine semester hours from a recognized and regionally accredited aduate school may be transferred toward the M.A. degree in Education. For students orking on the Fifth-Year Certificate a maximum of 14 semester hours may be transferred. fteen semester hours may be transferred toward the Rank I program. Requests for nsfer credit must be appropriate to the student's planned program, carry a grade of at ast "B", and be approved by the Dean of Graduate Academic Affairs or advisor when the anned program is signed or prior to taking the course.

No credit is allowed toward the Master's degree for courses taken by correspondence or pass/fail.

Academic Information

Degree and Certificate Requirements

The Master of Arts in Education degree program and the non-degree Fifth-Y certificate and Rank I programs are designed primarily for in-service teachers in pu schools.

Master of Arts in Education Degree

Requirements for the Master's degree include: (1) completion of one of the de programs described in the Graduate Programs section of this catalog; (2) a minimum g point average of 3.0; (3) satisfactory performance on the Comprehensive Examination; (4) completion at Union College of at least 21 of the required 30 semester hours minimum of 15 semester hours must be earned in courses numbered 500 or higher. students electing to write a Master's thesis, the six semester hours of credit are include the elective component (6 hours) of the degree plan.

Fifth-Year Certificate

Fifth-Year certificate requirements include: (1) completion of a 32-semester l program of studies; (2) a minimum grade-point average of 2.5; (3) 12 semester hour professional education courses; (4) 12 semester hours in a field of specialization, and completion at Union College of at least 18 of the required 32 semester hours.

The Kentucky Fifth-Year certificate program allows certain Continuing Educa Units (CEU) and in-service training to be credited toward a certificate. Students desirin earn CEU credits at another institution for transfer on a Fifth-Year program at U College must obtain permission in advance from the Dean of Graduate Academic Affair

Planned Program

Planned programs are required of all graduate students and are to be completed by student and an advisor or Dean of Graduate Academic Affairs. The written prog constitutes an agreement leading to the M.A. degree, Fifth-Year and Rank I certificates, certification programs. In order to assure that all academic requirements are met, student's program must be finalized before the completion of two graduate courses. subsequent changes in the program must be approved by the Dean of Graduate Acade Affairs, or the student's advisor.

Maximum Course Loads

The maximum course load for full-time graduate students is fifteen semester hours a regular semester, six hours per summer term, and three hours for an interim sess Graduate students engaged in full-time employment normally are restricted to six sem hours for a regular semester and six hours for a summer term.

Credit may not be earned concurrently at another institution without the permissio the Dean of Graduate Academic Affairs, and then only within the total limits indic above.

Time Limits

A graduate student is expected to complete requirements for the Master's degree. Fifth-Year Program, or Rank I no later than five years after beginning course work. extension of the time limit for an additional three years may be granted for sufficient rea

the Dean of Graduate Academic Affairs and the Graduate Council upon written petition m the student. If the course work is deemed reasonable within the framework of current owledge and findings, or if for some physical reason the student has not been able to nplete his/her work on schedule, consideration will be given for the extension of time.

The minimum time needed to complete the graduate work is two full semesters or its ivalent in summer sessions and part-time study.

Courses offered by Union College in off-campus locations apply toward the uirements, although some required courses are offered on campus only.

dependent Studies, TV Courses, Workshops

A student may take up to a total of 9 hours in TV courses, workshops, and independent dies at the Master's level, and up to a total of 12 hours on the 60-hour graduate program .A. + 30 or Rank I).

While the chief purpose of the independent study is to afford the student an opportunity obtain credit for study outside the regular course offerings of the graduate program, per-ssion may be granted under special conditions for a student to take a regularly scheduled urse as an independent study.

Visiting students and students beginning their graduate studies are not permitted to take ourse on an independent study basis.

Credit for independent studies done at other accredited institutions will be accepted vided such credit meets the Union College transfer credit requirements.

A student must have successfully completed nine semester hours of earned graduate dit in order to qualify for independent study.

All proposals for independent study must be approved by the Dean of Graduate ademic Affairs. It is the student's responsibility to work with a professor in planning the urse of study and to present the proposal for approval no later than three days after the istration date of the semester during which the work is to be accomplished. Forms for lependent study must be obtained from the Office of Graduate Academic Affairs.

omprehensive Examination

A written comprehensive examination is required of all students who have been ad-tted to candidacy for the Master of Arts in Education degree and who have completed or completing 24 hours toward the degree. The examination is given in April, July, and vember each year. Students must be admitted to candidacy for the Master's degree before ing allowed to take the examination. An application for the examination must be filed in Graduate Office at least 30 days prior to the schedule date of the exam.

A student who fails one of the four parts of the examination and is scheduled to aduate at the end of that term may request an oral examination on that part or may repeat examination at a later date. A student who fails the Comprehensive Examination may ake the failed parts twice.

Following are some of the salient aspects of the comprehensive examination:

All examination questions are of the essay type.

The comprehensive examination includes four areas, each representing a one-hour section of the examination: 1) research, 2) professional knowledge, 3) a current topic in education and (4) the student's teaching field.

The research question requires the analysis of a published research report and the interpretation of examples of commonly used statistical procedures.

The professional knowledge portion includes questions representing each of the courses in the professional block of the degree program. Students write on any one of these questions.

The third question requires all students to write on a current topic in education, the

topic to be selected by the faculty examination committee. Students are expected to have read widely in current education journals. A list of possible topics is prepared s ficiently in advance of the examination to guide students in their reading.

6. The fourth question requires the student to write on a topic in his or her teaching fie

Master of Arts Thesis

Students may opt to write a thesis in partial fulfillment of the requirements for M.A. degree. The thesis is a systematic, written presentation of the results of a stu investigation or research. Thesis credit will fulfill six hours in the elective component of M.A. program.

The Union College Graduate Council views the Master's Thesis as a compl document that demonstrates a high degree of competence in originality and creativ Before registering for EDUC 599 (Thesis), the student must complete a total of 15 seme hours of graduate work, including EDUC 500 - Educational Research.

Students choosing the thesis route must have an advisory committee of at least th faculty members who regularly teach graduate courses. The chairman shall be from student's major area of interest. At least one member shall be from the area of educat and at least one member shall be from outside the field of education. The Dean of Gradu Academic Affairs shall serve as ex officio member. The names of the committee/meml shall be submitted to the Dean for approval.

The committee, appointed by the Dean of Graduate Academic Affairs, shall review student's proposal to ensure that the problem to be investigated is a significant one, th thorough review of the literature has been conducted, and that the student is planning to proper methodology.

The completed draft of the thesis is to be presented to the chairman of the stud advisory committee at least 30 days before graduation. A final oral examination on thesis is to be successfully completed 10 days before graduation. Two copies of completed thesis and an abstract (150-350) are to be presented to the Dean one week be graduation.

If the thesis is not completed within two semesters after the student registers for ED 599, the candidate must continue to register each semester until the thesis is completed. student shall pay a continuous registration fee of one credit hour tuition charged each mester until the thesis is completed unless the change is otherwise waived by the th committee. Exceptions must be recommended by the thesis committee and approved by Graduate Council.

Detailed information concerning the thesis may be obtained in the Graduate Office.

Auditing

With the consent of the instructor a person may audit a course, provided he/she m the graduate admission requirements. An auditor is one who wishes to attend a c regularly, but who does not wish to meet the assignment or evaluation requirement students enrolled for credit. Courses with limited enrollment, laboratory courses, seminars are not open to auditors. Audited courses will appear on the transcript and may later be applied for credit. A fee of $15 per semester hour is charged.

Seniors as Graduate Students

The option to enroll in graduate courses (400G or 500 level) is open to seniors lac no more than six credit hours for graduation and satisfying the following conditions:

1. The student's grade point average must be at least 3.0 on all work attempted.
2. The approvals of the Dean of Graduate Academic Affairs, the student's advisor and Registrar must be obtained.

The total of the student's academic load may not exceed twelve credit hours for the semester.

All requirements for the undergraduate degree must be completed during the semester or summer in which the student is allowed to register for part-time graduate work.

Graduate credit will be allowed only for those courses completed beyond the require-:nts for the undergraduate degree.

In addition to the application for admission to the Graduate Studies Program, the student is ıuired to file a petition form listing the course or courses to be taken to complete the ıdergraduate degree as well as courses to be taken for graduate credit.

The petition must be approved by both the Dean of Graduate Academic Affairs and the gistrar.

he Grading System and Quality Points

Grades for graduate courses at Union College are defined as follows:

Excellent. Outstanding achievement. Four quality points.

Good. Acceptable achievement. Three quality points

Fair achievement. Only minimally acceptable. Two quality points.

Very low performance. One quality point. The records of students receiving such grades are subject to review. The result could be denial of permission to register for further graduate work at Union College.

Failure. No academic credit and no quality points.

Withdrawal from a course during the first 12 weeks of the semester. Failure to officially withdraw from a course before the withdrawal deadline indicated in the academic calendar may result in an automatic grade of F.

Incomplete. Used when attendance requirements have been met, but granting a grade has been postponed because, for reasons satisfactory to the instructor, certain course assignments have not been completed. An "I" must be removed before the end of the following regular semester if the student is enrolled for that semester. If the student is not enrolled, the "I" must be removed before the end of the 12-month period following the date the grade was recorded. An "I" that is not removed within the time limit remains on the student's permanent record and cannot be made up.

If a course is repeated at Union College, only the second grade is used in computing the student's grade point average.

Beginning with the 1995-96 academic year, a plus or minus may be added to the final ade and will appear on the transcript; however, this will not affect the grade point erage.

ourse Numbering System

Courses available to graduate students are offered on three levels, numbered 400, 500, ıd 600. A limit number of 400 level undergraduate courses are open to graduate students, ıd are so designated by a "G" in the course number. (Example: EDUC 401G.) A aximum of 15 semester hours may be taken on the M.A. Level, six semester hours on the ank I level. Since these courses are available to advanced undergraduate students, care ust be exercised to avoid duplication of courses already taken.

Courses on the 500 level are limited to graduate students. Those on the 600 level are tend primarily for Rank I students, although 9 semester hours on this level may be taken M.A. candidates.

Some course numbers are reserved for specific types of courses, and are not included in ourse Descriptions section of this catalog.

581, 681 "Special Topic" courses developed on a one-time basis, or a special innov
course.
582, 682 Special workshop.
583, 683 Courses offered through the Kentucky Education Television Network (KET).
595, 695 Independent study. Courses offered for individual study outside the regular co
offerings. Under special conditions a student may be permitted to take a regularly sched
course as an independent study.

Academic Advising Career Planning and Placement Servic

Upon Admission to Union College, students will begin a process whereby ca
planners and faculty advisors assist them to articulate their career goals, to select acad
courses of study appropriate to those goals, and to achieve suitable placement i
completion of their studies.

Academic Advising is considered to be one of the most important tasks of the fac
Each student will meet with an academic advisor on an individual basis in order to dev
a planned program.

A Career Counselor is also available to assist students, Inventories, workshops,
individual sessions are used to help students in identifying areas of interest or study
work. The Career Counselor also assists seniors and graduate students in prepari
placement file and coordinates employment opportunities. This placement file is sent, a
cost, to prospective employers at the student's request.

Graduate Programs of Study

Master of Arts in Education
Non-Degree Fifth-Year
Rank II

Elementary Teacher 25
Kindergarten Teacher 26
Middle School Teacher 27
- English and Communication
- Mathematics
- Science
- Social Studies

Reading Specialist 28
Special Education 28-29
High School Teacher 29
- English 30
- Health 30
- Health/Physical Education 31
- History 31
- Music 31
- Psychology 32
- Science 32
- Social Science 33
- Sociology 33

Rank I Programs

Elementary Teacher 35
Middle School Teacher 35
High School Teacher 35
Reading Specialist 28-29
Special Education 35
Elementary School Principal 36
Middle School Principal 37
High School Principal 38
Supervisor of Instruction 39

Curricula
M.A. Degree and Fifth-Year Certificate

The planned Fifth-Year program required for the renewal of provisional elementa teaching certificates shall be planned as outlined by the Kentucky State Department Education and shall be accepted as an equivalency for a Rank II classification in Kentucky

Through the Master of Arts in Education and the Fifth-Year non-degree programs Union College students can enhance their initial preparation as a classroom teacher. The programs are guided by the following Experienced Teacher Standards adopted t Kentucky Education Professional Standards Board.

Standard 1: **Demonstrates Professional Leadership**
The teacher provides professional leadership within the school, community, and education profession to improve student learning and well-being.

Standard 2: **Demonstrates Knowledge of Content**
The teacher demonstrates content knowledge within own discipline (s) and in application (s) to other disciplines.

Standard 3: **Designs/Plans Instruction**
The teacher designs/plan instruction that develops student abilities to us communication skills apply core concepts, become self-sufficient indivi uals, become responsible team members, think and solve problems, and integrate knowledge.

Standard 4: **Creates/Maintains Learning Climate**
The teacher creates a learning climate that supports the development of student abilities to use communication skills, apply core concepts, become self-sufficient individuals, become responsible team members, think and solve problems, and integrate knowledge.

Standard 5: **Implements/Manages Instruction**
The teacher introduces/implements/manages instruction that develops student abilities to use communication skills, apply core concepts, become self-sufficient individuals, become responsible team members, think and solve problems, and integrate knowledge.

Standard 6: **Assesses and Communicates Learning Results**
The teacher assesses learning and communicates results to students and others with respect to student abilities to use communication skills, appl core concepts, become self-sufficient individuals, become responsible members, think and solve problems, and integrate knowledge.

Standard 7: **Refects/Evaluates Teaching/Learning**
The teacher reflects on and evaluates teaching/learning.

Standard 8: **Collaborates with Colleagues/Parents/Others**
The teacher collaborates with colleagues, parents, and other agencies to design, implement, and support learning programs that develop student abilities to use communication skills, apply core concepts, become self-

sufficient individuals, become responsible team members, think and solve problems, and integrate knowledge.

andard 9: **Engages in Professional Development**
The teacher evaluates own overall performance in relation to Kentucky's learner goals and implements a professional development plan.

ion College has adopted the following three plans whereby students may earn Rank II assification:
Completion of the Masters of Arts in Education degree (non-thesis) 30-33 semester hours
Completion of the Masters of Arts in Education degree (thesis) plus 30-33 semester hours
Completion of the Fifth-Year non-degree program - 32 semester hours

Early Elementary Education Curriculum, K-4 (M.A. and Rank II)

PROFESSIONAL EDUCATION COMPONENT ..... 12 Semester hours

EDUC 500	Methods of Education Research
EDUC 520	Techniques and Materials for Classroom Reading or
EDUC 530	Diagnostic and Remedial Procedures in Reading
EDUC 502	Curriculum Design or
EDUC 603	Elementary Curriculum
PSYH 600	Advanced Human Development

SPECIALIZATION COMPONENT ..... 12 Semester hours
ourses should be chosen from four (4) separate non-education fields. Students should nsult their Planned Program for titles.

ELECTIVES* ..... 6 semester hours
Thesis - The thesis may be taken in lieu of six (6) hours of elective course work. For rther information the student should contact the graduate office.

Early Elementary Education Curriculum, (K-4) (Fifth-Year Certificate, Rank II, Non-Degree)

PROFESSIONAL EDUCATION ..... 12 semester hours
ust include:

EDUC 500	Methods of Research
EDUC 520	Techniques and Materials for Classroom Reading Instruction or
EDUC 530	Diagnostic and Remedial Procedures in Reading
EDUC 502	Curriculum Design or
EDUC 603	Elementary School Curriculum
PSYH 600	Advance Human Development

SPECIALIZATION COMPONENT ..... 12 semester hours
ust be selected from those courses listed under the Specialization Component in the aster (K-4) program. Course selection may be made upon needs and current teaching signment. Selection may include courses numbered 581, 681, (special topics) and/or 582, 82 (special workshops), however courses must be approved by advisor and Dean of raduate Affairs. Six hours must be graduate level.

3. ELECTIVES ..... 9 semester hou

May be chosen from the area of specialization or other graduate courses - Education Non-Education, depending upon interests and needs of student.

EDUC 501 History and Philosophy of Education and
SPED 501 Introduction to Special Education are suggested.

Kindergarten Teacher Preparation

An endorsement for teaching kindergarten shall be issued to an applicant who holds a va certificate for classroom teaching at the elementary level (1-8) and who has completed program below for the kindergarten endorsement.

EDUC 440G	Introduction to Early Childhood Education	3 h
EDUC 542	Fundamentals to Kindergarten Education	3 h
EDUC 545	Practicum in Kindergarten Education	6 h

Early Elementary Endorsement Program (K-4)

The program of preparation for the endorsement for teaching at the K-4 level of certific valid for classroom teaching in the Middle grades or at the High School level. (T endorsement plan is based upon the Union College initial program approved by Kentucky State Board of Education.)

A number of the required courses listed below are of graduate level and may be appli toward the M.A. degree in Education or Rank I Certificate. Complete information available in the Graduate Office.

1. PROFESSIONAL PREPARATION:

Education 351 - Human Growth and Development or ..... 3 h
Psychology 600 - Advanced Human Development ..... 3 h
Education 361 - Reading in the Primary Grades or ..... 3 h
Education 520 - Techniques and Materials for Classroom Reading Instruction ..... 3 h
*Education 341 - Methods of Teaching Mathematics in Elementary School or ..... 3 h
*Math 532 - Modern Math Laboratory ..... 3 h
*General Science 401G - Science: Concepts, Processes, and Inquiry or ..... 3 h
*GNSC 525 - Science for the Elementary Grades ..... 3 h
*Education 441G - Methods of Teaching Social Studies ..... 3 h
*Education 433 - Supervised Student Teaching in the Elementary Grades ..... 3 h
(K, 1, or 2 level) or
Education 635 - Laboratory Experiences ..... 3 h
(K-4) (Students must have completed at least one year of full-time teaching)

*Course work will contain experience with the use of computers and classroom e periences (K-4).

2. RELATED STUDIES:

Art 271 - Elementary School Art ..... 3 h
Music 373 - Elementary School Music ..... 3 h
Physical Education 261 - Physical Education in the Elementary School ..... 3 h
Health 451G - School and Community Health ..... 3 h
Health Elective (graduate or undergraduate) ..... 3 h
English 355 - Children's and Adolescent Literature ..... 3 h

Candidates without a major, or area of concentration in mathematics must complete one the following:

Math 203, 204 or ..... 6 h
Math 531 - Topics in Modern Math for Elementary Teachers ..... 3 h

Middle School Curriculum 5-8
(M.A. and Rank II)

PROFESSIONAL EDUCATION COMPONENT ..... 12 semester hours

EDUC 500 Methods of Education Research
EDUC 502 Curriculum Design
EDUC 601 Advanced Study of the Middle Grade Child
EDUC 605 The Middle School Curriculum

SPECIALIZATION COMPONENT ..... 12 semester hours

ll be selected from those academic fields previously completed for provisional tification.

ELECTIVES* ..... 6 semester hours

hesis - The thesis may be taken in lieu of six (6) hours of elective course work. For ther information the student should contact the graduate office.

Middle School Curriculum 5-8
(Fifth Year Certificate and Rank II)

PROFESSIONAL EDUCATION COMPONENT ..... 12 semester hours

EDUC 500 Methods of Education Research
EDUC 502 Curriculum Design
EDUC 601 Advanced Study of the Middle Grade Child
EDUC 605 The Middle School Curriculum

SPECIALIZATION COMPONENT ..... 12 semester hours

ll be selected from those academic fields previously completed for provisional tification. Six (6) hours must be completed at the graduate level.

ELECTIVES ..... 9 semester hours

ay be chosen from the area of specialization or other graduate courses. EDUC 501 story and Philosophy of Education and SPED 501 Introduction to Special Education are ggested.

Middle Grade Endorsement Program 5-8

is endorsement program for classroom teaching in the middles grades requires a tificate valid for classroom teaching and is based upon the Union College undergraduate ogram approved by the Kentucky State Board of Education.
aduate level courses listed below may be applied toward the M.A. Degree in Education Rank I Certificate.

quirements:
The applicant must hold 24 hours of appropriate course work in one of the following lds:

English and Communications
Mathematics
Science
Social Studies

Complete information is available in the Graduate Office as to specific courses needed the above fields.

2. Education 601 - Advanced Study of the Middle Grade Child or .....
   Education 352 - Human Growth and Development in the Middle Grades .....

3. Education 370 - The Middle School Curriculum or .....
   Education 605 - The Middle School Curriculum .....

4. Education 520 - Techniques and Materials for Classroom Reading Instruction or ... 3 hr
   Education 620 - Teaching Reading in the Content Field ..... 3 hr

Reading Specialist
(M.A./Fifth Year and Rank II)

1. PROFESSIONAL EDUCATION ..... 9 semester hou
EDUC 500 Research in Education .....
EDUC 501 History and Philosophy .....
EDUC 502 Curriculum Design .....

2. SPECIALIZATION COMPONENT ..... 18 semester hou
EDUC 520 Techniques and Materials for Classroom Reading .....
EDUC 530 Diagnostic and Remedial Procedures in Reading .....
EDUC 532 Techniques and Materials for Remedial Reading .....
EDUC 533 Language Arts and Reading .....
EDUC 535 Practicum in Teaching Reading (Clinic) .....
EDUC 620 Teaching Reading in the Content Field .....

3. RELATED FIELD ..... 6 semester hou
PSYH 525 Psychology of Reading .....
EDUC 625 Seminar in Reading .....

Special Education
(M.A. and Rank II)

1. PROFESSIONAL EDUCATION ..... 12 semester hou
EDUC 500 Methods of Education Research
EDUC 502 Curriculum Design
EDUC 520 Techniques and Materials for Classroom Reading Instruction or
EDUC 530 Diagnostic and Remedial Procedures in Reading
PSYH 600 Advanced Human Development

SPECIALIZATION COMPONENT ..... 12 semester hours

SPED 401G Early Childhood Programs for Exceptional Learners
SPED 403G Career Education for Exceptional Learners
SPED 405G Programs and Services for Exceptional Learners
SPED 501 Introduction to Special Education (Required)
SPED 503 Behavior Management for Exceptional Learners
SPED 511 Assessment Procedures for Exceptional Learners
SPED 513 Diagnostic and Prescriptive Teaching
SPED 515 Instructional Procedures for LBD Learners

ELECTIVE COMPONENT ..... 6 semester hours

e thesis option may be taken in lieu of six (6) hours of elective credit. For further 'ormation contact your advisor or graduate office.

Learning and Behavior Disorders K-12 Endorsement Program

ese programs for the endorsement of a teaching certificate for Learning and Behavior sorders K-12 is based upon the Union College initial program approved by the Kentucky partment of Education.

is is intended only for students with elementary or middle grade certification

1. SPED 501 Survey of Exceptional Learners
2. SPED 503 Behavior Management for Exceptional Learners
3. SPED 511 Assessment Procedures for Exceptional Learners
4. SPED 513 Diagnostic and Prescriptive Teaching
5. SPED 515 Instructional Procedures for LBD Learners
6. SPED 517 Practicum in Special Education
7. SPED 401G Early Childhood Programs for Exceptional Learners
8. SPED 403G Career Education for Exceptional Learners
9. SPED 405G Programs and Services for Exceptional Learners
10. SPED 521 Advanced Practicum in Special Education
    This course is required for all students seeking Learning Behavior Disorders Certification that do not have three years full time teaching experience with LBD students.

Learning and Behavior Disorders 7-12 Endorsement Program

is is intended only for students with secondary certification

1. SPED 501 Survey of Exceptional Learners
2. SPED 503 Behavior Management for Exceptional Learners
3. SPED 511 Assessment Procedures for Exceptional Learners
4. SPED 513 Diagnostic and Prescriptive Teaching
5. SPED 515 Instructional Procedures for LBD Learners
6. SPED 517 Practicum in Special Education
7. SPED 401G Early Childhood Programs for Exceptional Learners
8. SPED 403G Career Education for Exceptional Learners
9. SPED 405G Programs and Services for Exceptional Learners

10. SPED 521 Advanced Practicum in Special Education
This course is required for all students seeking Learning Behavior Disorders Certification that do not have three years f time teaching experience with LBD students.

Related Areas: Six hours of reading methods
1._____ 2._____

Six hours of math methods
1._____ 2._____

High School Curriculum

Persons holding the provisional certificate for teaching in high school (9-12), may choo one of the following three options to earn Rank II certification:

1. Completion of the Master of Arts in Education degree (non-thesis) - 30 semester hours
2. Completion of the Master of Arts in Education degree (thesis) - 30 semester hours
3. Completion of the Fifth-Year Non-degree program - 32 semester hours

English Curriculum
(M.A. in Education and Rank II)

1. PROFESSIONAL EDUCATION ..... 12 semester hou
EDUC 500, 501, 502, or 600
PSYH 600

2. SPECIALIZATION COMPONENT ..... 15 semester hou
Select EDUC 520, 620, or 530 and four courses from:
ENGL 401G, 402G, 419G, 421G, 451G, 521, 522, 541, 542, 572, or 595

3. ELECTIVES* ..... 3 semester hou
Elect from area (1) or (2) above or from other graduate disciplines with approval of yo advisor.
*Thesis - The thesis may be taken in lieu of six (6) hours of elective course work. F further information the student should contact the graduate office.

Health Curriculum
(M.A. in Education and Rank II)

1. PROFESSIONAL EDUCATION ..... 12 semester hou
EDUC 500, 501, 502, or 600
PSYH 600

2. SPECIALIZATION COMPONENT ..... 12 semester hou
select from HLTH 451G, 475G, 551, 582, or 595

3. ELECTIVES* ..... 6 semester hou
Select from area (1) or (2) above or from other graduate disciplines with approval of yo advisor.
*Thesis - The thesis may be taken in lieu of six (6) hours of elective course work. F further information the student should contact the graduate office.

Health/Physical Education Curriculum
(M.A. in Education and Rank II)

PROFESSIONAL EDUCATION ..... 12 semester hours
EDUC 500, 501, 502, PSYH 600

SPECIALIZATION COMPONENT ..... 15 semester hours
Select (6) hours from HLTH 451G, HLTH 475G, HLTH 551, or HLTH 582 and
Select (6) hours from PHED 425G, PHED 525, or PHED 550
PHED 501 is required

ELECTIVES* ..... 3 semester hours
lect from area (2) above or from other graduate disciplines with approval of your advisor.
hesis - The thesis may be taken in lieu of six (6) hours of course work. For further
ormation the student should contact the graduate office.

History Curriculum
(M.A. in Education and Rank II)

PROFESSIONAL EDUCATION ..... 12 Semester hours
EDUC 500, 501, 502, or 600
PSYH 600

SPECIALIZATION COMPONENT ..... 12 semester hours
Select from: HIST 421G, 446G, 470G, 475G, 521, 531, 551, 595

ELECTIVES* ..... 6 semester hours
lect from area (2) or from other graduate disciplines with approval of your advisor.
hesis - The thesis may be taken in lieu of six (6) hours of elective course work. For
rther information the student should contact the graduate office.

Music Curriculum
(M.A. in Education and Rank II)

PROFESSIONAL EDUCATION ..... 12 semester hours
EDUC 500, 501, 502, or 600
PSYH 600

MUSIC COMPONENT ..... 12 semester hours
Choose four courses from the following:
Music 520, 570, 572, 573, 574, 575

ELECTIVES* ..... 6 semester hours
lect from area (2) or from other graduate disciplines with approval from your advisor.
hesis - The thesis may be taken in lieu of six (6) hours of elective course work. For
rther information the student should contact the graduate office.

Psychology Curriculum
(M.A. in Education and Rank II)

1. PROFESSIONAL EDUCATION ..... 12 semester ho
   EDUC 500, 501, 502, or 600
   PSYH 600

2. SPECIALIZATION COMPONENT ..... 12 Semester ho
   Select from: Psychology 402G, 460G, 461G, 470G, 565, 595, 640

3. ELECTIVES* ..... 6 semester ho
Select from area (1) or from other graduate disciplines with approval of your advisor.
*Thesis - The thesis may be taken in lieu of six (6) hours of elective course work. F
further information the student should contact the graduate office.

Science Curriculum - Biological Science
(M.A. in Education and Rank II)

1. PROFESSIONAL EDUCATION ..... 12 semester ho
   EDUC 500, 501, 502, or 600
   PSYH 600
2. SPECIALIZATION COMPONENT ..... 12 Semester hou
   Must include BIOL 600 unless thesis option is chosen. May include ENVS 550.

3. ELECTIVES* ..... 6 semester hou
Select from area (2) or from other graduate disciplines with approval of your advisor.
*Thesis - The thesis may be taken in lieu of six (6) hours of elective course work. F
further information the student should contact the graduate office.

Science Curriculum - Chemistry and/or Physical Science
(M.A. in Education and Rank II)

1. PROFESSIONAL EDUCATION ..... 12 semester hou
   EDUC 500, 501, 502, or 600
   PSYH 600

2. SPECIALIZATION COMPONENT ..... 12 semester hou
A minimum of six (6) hours in Chemistry or Physics. Must include CHEM or PHYS 6
unless thesis option is chosen below. An additional six hours should be chosen fr
courses in the major or minor teaching fields. GNSC 584 may be included.

3. ELECTIVES* ..... 6 semester hou
Select from area (2) or from other graduate disciplines with approval of your advisor.
*Thesis - The thesis may be taken in lieu of six (6) hours of elective course work. F
further information the student should contact the graduate office.

Social Science Curriculum*
(M.A. in Education and Rank II)

'ROFESSIONAL EDUCATION ..... 12 semester hours
EDUC 500, 501, 502, or 600
PSYH 600

;PECIALIZATION COMPONENT ..... 12 Semester hours
Select from: SOCI 421G, 433G, 460G, 464G, 511, 595
HIST 421G, 446G, 470G, 475G, 521, 531, 551, 595

:LECTIVES* ..... 6 semester hours
ect from area (2) or from other graduate disciplines with approval of your advisor.
nesis - The thesis may be taken in lieu of six (6) hours of elective course work. For ther information the student should contact the graduate office.
pen to those holding certification in a social studies concentration or having a history jor or minor.

Sociology Curriculum
(M.A. in Education and Rank II)

PROFESSIONAL EDUCATION ..... 12 semester hours
EDUC 500, 501, 502, or 600
PSYH 600

SPECIALIZATION COMPONENT ..... 12 semester hours
Select from: SOCI 421G, 433G, 460G, 464G, 511, 595

ELECTIVES* ..... 6 semester hours
lect from area (2) or from other graduate disciplines with approval of your advisor.
hesis - The thesis may be taken in lieu of six (6) hours of elective course work. For ther information the student should contact the graduate office.

High School Fifth-Year Non-Degree Curriculum*
(Rank II)

Requirements for students holding provisional secondary teaching certification and siring to earn a fifth-year non-degree program are listed on page 18.

PROFESSIONAL EDUCATION ..... 12 semester hours
EDUC 500, 501, 502, or 600
PSYH 600

SPECIALIZATION COMPONENT ..... 12 semester hours
ust be selected from teaching major or minor or closely-related field. Course selection ay include courses numbered 581, 681, 582, and 682, however courses must be approved advisor or the Dean of Graduate Affairs. Six hours must be graduate level.

ELECTIVE COMPONENT ..... 8 semester hours
ay be chosen from the area of specialization or other graduate courses - Education or non-lucation, depending upon interests and needs of student. However, selection must be ade in sequence with previous preparation. Courses numbered 583 and 683 may be cluded.
Comprehensive exams are not required for the Fifth-Year Certificate.

Rank I Certificate

The preparation program for Kentucky's Rank I classification under the Foundatio Law shall be planned in advance by the candidate and the graduate advisor in terms of o (1) or more of the following purposes:

(a) To improve the professional competency for the position covered by the initial teachin certificate.
(b) To extend the scope of professional competency to some certification area not covere by the initial certificate;
(c) To obtain preparation - certification required for professional advancement to a higher position.

Rank I classification requires the completion of a planned program of 30 semest hours beyond the Master's level. The program for the Rank I must include a minimum of hours of 600 level courses and may include a maximum of six hours of 400G level course Education 670 - Directed Field Project is required of all students.

Each program is especially planned for the student and requires a conference with t Dean of Graduate Academic Affairs or an advisor prior to enrollment. Up to 15 hours cre may be transferred from other graduate institutions if appropriate to the student's plann program and if the final grade achieved is at least a "B".

A grade point of at least 3.0 is required for certification and no comprehensi examination is required. Correspondence courses may not be transferred into the program.

Although each program is individualized, the guidelines below will prevail in t planning of the program. Some courses may have been taken at the Master's level, a appropriate courses may be substituted with the permission of the Dean of Gradua Affairs.

Students who are admitted to Rank I program must:

1. Make application and have two different transcripts sent to the Graduate Office, Unio College. (There is no application fee for students who receive the M.A. or Fifth-Year certificate at Union College.)
2. Submit latest certificate earned to Graduate Office.
3. Submit two letters of reccommendation.

Students who complete requirements for Rank I must file a request in the Registra Office for transcripts to be sent to appropriate officials. This applies to all students who a completing Rank I for certification or a change in rank or both. Proper Certification for are available in the Registrar's Office and should be secured before the end of the term which the student is completing his/her work.

General Rank
Elementary, Middle, or High School Teacher

Through the General Rank I program Union graduate students can enhance their ski as a classroom teacher. This program is guided by the Experienced Teacher Standar adopted by the Kentucky Professional Standards Board and can be found on page 24 of t catalog.

1. PROFESSIONAL EDUCATION ..... 9 semester hou
   Must include EDUC 500, 501, 670
   Suggested courses EDUC 511, PSYH 470G, 650

SPECIALIZATION COMPONENT ..... 12 semester hours
Include only non-education courses
Suggested courses: PSYH 565 and 600
RELATED FIELDS ..... 9 semester hours
Must include EDUC 603, EDAD 63

Remaining courses should be selected from: EDUC 468G, 502, 600, 620
Some courses listed as required may have been taken at the M.A. or Fifth-year level. ppropriate courses may be substituted by consulting with adviser or Dean of Graduate cademic Affairs.

Educational Leadership

Through the Rank I Program at Union College students can obtain certification as an lementary School Principal, Middle School Principal, Secondary School Principal, and upervisor of Instruction. Union's Educational Leadership Programs are guided by the tandards for Administrator Preparation and Certification adopted by the Kentucky rofessional Standards Board.

tandard 1: The administrator is the instructional leader who guides, facilitates, and supports the curriculum, instruction, and assessment.

tandard 2: The administrator practices positive, promotional, and pro-active communication strategies (oral and written) for effective parent/community/school involvement to improve the learning environment for all students.

tandard 3: The administrator is the organizational leader and manager who acts within legal and ethical guidelines to accompolish educational purposes.

Students may earn certification for the principalship program with 18 graduate hours bove the M.A, degree of required courses. This certifies the student for Level I after ompletion of Internship Program which is valid for five years. For continued certification he student must earn 12 additional required graduate earning Level II Certification and Rank I.

The students must fulfill the following requirements to be admitted to the Eduactional eadership Programs.

A. Submit transcript indicating completion of M.A. degree.
B. Submit copy of Teaching Certificate valid for regular classroom teaching for the grade levels for which he/she plan to be an administrative leader.
C. Present evidence of three years of full-time teaching
D. Submit two formal recommendations (forms in Graduate Office).
E. Have a G.P.A. of 3.00 on graduate work earned.
F. All prospective candidates for certification or a principal must successfully pass the required NTE and Kentucky Teaching Batteries.

Professional Certificate for Instructional Leadership Elementary School Principalship, K-4

Prerequisite Courses

EDUC 500	Methods of Educational Research
EDUC 520	Techniques & Materials for Classroom Reading Instruction or
EDUC 530	Diagnostic and Remedial Procedures in Reading

EDUC 501	History and Philosophy of Education
EDUC 502	Curriculum Design or
EDUC 600	Advanced Curriculum
PSYH 565	Psychology of Exceptional Children
EDUC 603	Elementary School Curriculum
PSYH 600	Advanced Human Development or
PSYH 650	Advanced Education Psychology

Level I Certification Requirements

EDUC 511	Tests and Measurements
EDUC 573	Computers in Education
EDUC 676	Research and Seminar in Elementary Education
EDAD 645	School Organization & Administration
EDAD 654	Improvement of Instruction Through Supervision
EDAD 655	The Elementary School Principal

Level II Certification and Rank I Requirements

EDAD 630	School Law
EDAD 640	School Finance and Business Management
EDAD 669	School and Community Relations
EDAD 670	Directed Field Project - Personnel Administration

A certificate based upon Level II preparation as a middle grade principal may extended to early elementary school principal, grades K-4, upon completion of nine semester hours of graduate credit which shall include:

1. EDUC 520 - Techniques and Materials for Classroom Reading Instruction (3) or
   EDUC 530 - Diagnostic and Remedial Procedures in Reading (3) or
   EDUC 683 - Teaching Reading Comprehension (3)
2. EDUC 603 - Elementary School Curriculum (3)
3. EDAD 676 - Research and Seminar in Elementary Education (3)

The validity of the extended certificate shall be limited to grades K-8.

Professional Certificate for Instructional Leadership Middle School Principal, 5-8

Prerequisite Courses

EDUC 500	Methods of Educational Research
EDUC 502	Curriculum Design or
EDUC 600	Advanced Curriculum
EDUC 520	Techniques & Materials for Classroom Reading Instruction or
EDUC 530	Diagnostic and Remedial Procedures in Reading
EDUC 605	The Middle School Curriculum
EDUC 601	Advanced Study of the Middle Grade Child
PSYH 565	Psychology of Exceptional Children

Level I Certification Requirements

EDUC 511	Tests and Measurements
EDUC 573	Computers in Education
EDUC 677	Research & Seminar on the Middle School

EDAD 645 School Organization & Administration
EDAD 654 Improvement of Instruction Through Supervision
EDAD 657 The Middle School Principal

Level II Certification and Rank I Requirements

EDAD 630 School Law
EDAD 640 School Finance and Business Management
EDAD 660 School & Community Relations
EDAD 670 Directed Field Project in Personnel Administration

A certificate based upon Level II preparation as an early elementary school principal or a secondary school principal may be extended to middle grade principal 5-8 upon npletion of six semester hours of graduate credit which shall include:
EDAD 677 - Research and Seminar in Middle Grade Education (3)
(Contains 25 hours of field experience)
EDUC 601 - Advanced Study of the Middle Grade Child (3)
e validity of the extended certificate shall be limited to the respective grade levels in the 8 or 5-12.

Professional Certificate for Instructional Leadership Secondary School Principal, 9-12

Prerequisite Courses

)UC 500 Methods of Educational Research
)UC 501 History and Philosophy of Education
)UC 502 Curriculum Design or
)UC 600 Advanced Curriculum
)UC 604 Secondary School Curriculum
YH 600 Advanced Human Development or
YH 650 Advanced Educational Psychology
YH 565 Psychology of Exceptional Children

Level I Certification Requirements

)UC 511 Tests and Measurements
)UC 573 Computers in Education
)UC 678 Research & Seminar in Secondary Education
)AD 645 School Organization & Administration
)AD 654 Improvement of Instruction Through Supervision
)AD 656 The Secondary School Principal

Level II Certification and Rank I Requirements

)AD 630 School Law
)AD 640 School Finance and Business Management
)AD 660 School & Community Relations
)AD 670 Directed Field Project in Personnel Administration

In additionon to receiving Principalship Certification, the student will rec Certification as Supervisor of Instruction, 9-12.
A certificate based upon Level II preparation as a middle grade principal may be exte to secondary school principal, grades 9-12, upon completion of six semester hour graduate credit which shall include:

1. EDUC 604 - Secondary School Curriculum (3)
2. EDAD 678 - Research Seminar in Secondary Education (3)

The validity of the extended certificate shall be limited to grades 5-12.

Supervisor of Instruction Certification Program K-12

The student must:

1. Submit a transcript indicating completion of M.A. degree.
2. Submit a copy of Teaching Certificate of one of the following type certificates held elementary 1-8, elementary K-4, middle grades 5-8, high school 7-12, high school 9-12, - exceptional children (except speech and communication disorders.)
3. Submit evidence of three years of full-time teaching.
4. Submit two formal recommendations (forms in Graduate Office).
5. Show evidence of G.P.A. of 3.00 on graduate work earned.
6. Meet required cut-off point of the N.T.E.

Prerequisite Courses

EDUC 500	Methods of Educational Research
EDUC 501	History & Philosophy of Education
EDUC 511	Tests & Measurements
EDUC 502	Curriculum Design or
EDUC 600	Advanced Curriculum
EDUC 520	Techniques & Materials for Classroom Reading Instruction
PSYH 600	Advanced Human Development or
PSYH 650	Advanced Educational Psychology

Level I Certification Requirements

EDAD 645	School Organization & Administration
EDAD 654	Improvement of Instruction Through Supervision
EDUC 603	Elementary School Curriculum or
EDUC 605	The Middle School Curriculum
EDUC 604	Secondary School Curriculum
EDUC 680	Research & Seminar in Supervision
PSYH 565	Psychology of Exceptional Children

Level II Certification and Rank I Requirements

EDAD 630	School Law
EDAD 660	School & Community Relations
PSYH 640	Group Processes
EDUC 670	Directed Field Project

Course Descriptions

Each course is offered for three semester hours of credit unless otherwise noted.

BIOLOGY

)L 561. Topics in Biological Science (3)

ecture and discussion approach to topics and issues of contemporary importance and rest in the biological science. One topic will be extensively explored each term or ester that the course is offered. The course may be repeated when an alternate topic is phasized. Possible topics include: Cancer, Immunobiology, Human Evolution, Human roduction and Development, Human Genetics, Plants and People, etc.

)L 600. Research Investigations (3)

independent research problem in which the student must demonstrate his ability to ploy the scientific method in carrying out an original scientific investigation. A ewritten and bound manuscript will be required. An examination may or may not be en, depending on the nature of the problem selected. Prerequisite: Permission of the ructor and approval of the head of the department.

CHEMISTRY

IEM 421G. Biochemistry (3)

dy of the chemistry, energetics, and metabolism of biomolecules, such as carbohydrates, teins, lipids, nucleic acids, enzymes and vitamins with reference to living systems. requisite: CHEM 312 Organic Chemistry or its equivalent.

IEM 561. Selected Topics in Chemistry (3)

pics to be chosen from current and/or specialized areas of chemistry such as industrial or vironmental chemistry and will vary according to students need. May be repeated for a ximum of 6 credit hours if topics differ. For secondary teachers of chemistry, physics l biology.

IEM 600. Research Investigations (3)

introduction to research in which the student must demonstrate an ability to use the entific method by conducting an original scientific investigation. A typewritten report l be required. An examination may or may not be given, depending on the nature of the oblem selected. Prerequisite: Permission of instructor and approval of the Division Chair l Dean of Graduate Academic Affairs.

ECONOMICS

ON 504. Current Topics in Economics (3)

e primary objective of this course is to introduce the graduate student to economic ory, and demonstrate how it can be utilized to teach economics to students in K-12 by amination of current events from the news.

ON 601. Economics for Teachers (3)

is course is designed for teachers in any subject area, at any grade level, and assumes no ckground in economics. Its purpose is to share with teachers the variety and scope of portunities to include economic education in whatever they teach. Teachers in this course cover that they already know and teach economics without realizing it, and learn of ways expand this instruction, or to develop their own plans for teaching economics to their dents. Teachers pursuing any advanced degree qualify for the course.

ECON 605. Consumer Economics for Teachers (3)
The principal objective of this course is to help teachers learn areas of consumer economics t can teach to their students. These topics may be applied at any level, K-12. The course will provide education in consumer economics issues which will be of personal interest and us teachers as consumers.

EDUCATION

EDUC 401G. Introduction to Counseling and Guidance (3)
Educational, sociological, and psychological foundations of counseling and guidance in scho colleges and related service oriented agencies. Includes essential counseling and guida services, policies, practice and procedures.

EDUC 440G. Introduction to Early Childhood Education (3)
Survey of the physical, emotional, mental, and psychological development of the child un ten, and the role of the early elementary teacher in working with such a child.

EDUC 441G. Teaching Social Studies (3)
Methods and materials for the teaching of elementary school social studies including kinder ten through eight curricula. The philosophies, terminology, and evaluation methods materials will be included.

EDUC 460G. Learning Theories for Educators (3)
The major focus of this course is an exploration of how individuals learn, including spe learning theories and their relation to classroom teaching.

EDUC 468G. Educational Media (3)
A study of the multi-media approach in classroom instruction, with guidelines for the select production, evaluation, and use of audio-visual materials and equipment.

EDUC 500. Methods of Educational Research (3)
Types of research, selection of problems, collection and classification of data; organizati presentation, and interpretation of materials. Includes unit on computer use and practice.

EDUC 501. History and Philosophy of Education (3)
The historical antecedents of American education and the influence of various educatic philosophies are explored. Particular attention is given to the main philosophical approac to teaching, with emphasis on students developing a rationale and strategy for incorporat these ideas in the classroom setting.

EDUC 502. Curriculum Design (3)
Curricula organization, materials, and methods. Techniques for evaluating and construct curricula. A unit addressing pupil needs resulting from exceptionality and multicult differences is included.

EDUC 510. Statistics I (3)
Designed to aid teachers and administrators in their understanding and use of element statistical terminology and procedures. Statistical concepts useful in analyzing and interpret data from published research are emphasized.

UC 511. Tests and Measurements (3)
truments and techniques for evaluating abilities, aptitudes, personality traits, and interests mined, and teacher-made evaluative instruments given special emphasis. Application of results to vocational and educational guidance stressed. Special attention to the exception ld in the evaluative process.

UC 520. Techniques and Materials for Classroom Reading Instruction (3)
oundation course which includes a general review of the following reading skills: Word ognition, comprehension, and fluency. An in-depth study of the various approaches to ching reading will be included. Students will become familiar with various techniques of truction, the organization of the reading program, and a variety of reading materials. Simple thods of diagnosis are discussed.

UC 530. Diagnostic and Remedial Procedures in Reading (3)
rrent research findings in diagnostic and remedial procedures in reading. Techniques for plying diagnostic instruments for locating causes of serious reading deficiencies are devel-ed, along with suggested remedial procedures.

UC 532. Techniques and Materials for Remedial Reading (3)
chniques and materials appropriate to the diagnosis and correction of reading difficulties. urse requirements include auditory and visual screening, diagnostic testing, and conduction a clinical case study. Prerequisite: EDUC 530. Offered in odd numbered years only.

UC 535. Practicum in Teaching Reading with Clinic (3)
actice involving traditional and behavioral science methodologies for remediation of reading abilities. Extensive experience using group methodology that employs operant condition-g, respondent, and perceptual learning paradigms. Normally taken concurrently with PSYH 5 - Psychology of Reading. Offered in odd numbered years only.

UC 540. Laboratory Experiences in Elementary Education (1-8) (3)
substitute for student teaching for elementary majors. Considers current problems and trends teaching with laboratory periods for construction of classroom materials. Classroom teaching periences with elementary children are included. Prerequisite: One year of successful ssroom teaching experience. Summer only.

UC 542. Fundamentals of Kindergarten Education (3)
is course focuses on kindergarten curriculum, materials, organization of the kindergarten ogram, creative experiences for the pre-school child, parent education and home visitation, derstanding of families, community resources, planning learning experiences, and evalua-n of pupil programs and progress. Direct observation and participation in the kindergarten ting.

UC 545. Practicum in Kindergarten Education (6)
is course offers direct, guided, supervised experience with kindergarten children under the pervision of a qualified kindergarten teacher. Offered in even numbered years only.

UC 550. Foundations of Gifted Education (3)
study on gifted education that will enable teachers to identify and work with the gifted ident. Includes discussion of the various categories of giftedness other than I.Q. The course ll also include: screening and evaluating, needs assessment, and counseling techniques.

EDUC 551. Curriculum Development for Gifted Education (3)
This course involves designing curriculum models and curriculum guides, and develo scope and sequence charts for gifted education. The course offers exploration into the diff types of programs and how these programs will be implemented. (It will make an attempt the program to the giftedness of individual students.)

EDUC 552. Instructional Strategies and Materials for Releasing Creativity in Gifted E tion (3)
The course focuses on instructional strategies and materials needed for releasing creativit the gifted student. It will have a relaxed atmosphere conducive to drawing forth creative inductive thinking on the part of the student. A variety of sources of materials will be us

EDUC 553. Practicum for Gifted Education (3)
A supervised practicum course in gifted education for teachers who have successfully pleted at least three years of teaching experience. The course emphasizes working directly gifted students, writing units and lesson plans, developing learning centers, and d demonstration teaching in the classroom with gifted students from the community.

EDUC 560. Supervision of Student Teaching (3)
Designed for classroom teachers who assume the responsibility of supervising student teac Experiences deemed necessary for developing students into effective teachers are consid Prerequisite: One year of teaching experience or consent of the instructor.

EDUC 573. Computers in Education (3)
Designed for teachers, supervisors and administrators. A hands-on experience with micro puter operation, introduction to BASIC, use of software, and information about instruct and management uses in schools. No previous experience with microcomputers require

EDUC 595. Graduate Independent Study (1-3 hours)
Guided study and research toward the solution of specific educational problems encount by students. Open to students at 5th year level.

EDUC 599. Master's Thesis (6)

EDUC 600. Advanced Curriculum (3)
Study of theory, principles, practices, procedures in current curriculum development reorganization. Prerequisites: EDUC 502, 603, or 604 or by permission of professor.

EDUC 601. Advanced Study of the Middle Grade Child (3)
Focuses on the physical, intellectual, personal, social and moral development of children in through the eighth grades, ages 10-13. Socializing influences such as families, peers, school mass media are included. The relationship of the transescent child to other age grou considered.

EDUC 603. Elementary School Curriculum (3)
Curricular organization, materials, and methods currently used in elementary schools. T niques for evaluating and constructing curricula.

EDUC 604. Secondary School Curriculum (3)
Curricula organization, materials, and methods currently used in secondary schools. T niques for evaluating and constructing curricula.

UC 605. Middle School Curriculum (3)
rricula organization, materials, and methods currently used in middle schools. Techniques evaluating and constructing curricula.

UC 620. Teaching Reading in the Content Field (3)
nsiderations of provisions and procedures for developing reading skills needed at the upper mentary and junior-senior high school level; various types of reading improvement pro- ms, reading tests, and remedial programs at the upper grade levels. EDUC 520 or 530 ommended as prerequisites.

UC 635. Laboratory Experience in Education (K-4) (3)
substitute for student teaching for early childhood (K-4) majors. The course will include rent problems and strategies in teaching, with laboratory periods for construction of ssroom materials. Classroom teaching experiences with young children will be included. requisite: one year of successful classroom experience. Summer only.

UC 670. Directed Field Project (3)
quired in all Rank I programs. Following prescribed guidelines, the student works on a blem of practical significance in the classroom, school, or school district and prepares a mal project report. A written project proposal is prepared during the first month of the rse, and students are expected to complete course requirements by the end of the term in ich they are registered. Regular consultation with the project supervisor is expected. requisites: Completion of 12 semester hours toward Rank I certification, and permission of project supervisor.

EDUCATIONAL ADMINISTRATION

AD 630. School Law (3)
tory of legal provisions for public education in the United States, interpretation and lication of present school law, federal and state.

AD 640. School Finance and Business Management (3)
leral, state and local financing of schools, equalization of educational opportunities, sources chool revenue, school budgets, business methods of accounting.

AD 642. Administration of Pupil Personnel Services (3)
phasizes roles and responsibilities related to the organization and administration of pupil sonnel services.

AD 643. Pupil Personnel Accounting and Records Management (3)
phasizes systematic procedures in pupil personnel accounting and records management as ted to the financing of public education and the protection of student rights.

AD 645. School Organization and Administration (3)
ganization of the modern public school, staff-teacher relationships, programs of studies, cher records and reports, personnel and public relations, utilization of teacher time and ysical facilities, and the impact of judicial policy making.

AD 650. School Plant and Transportation (3)
nning, construction and maintenance of school plants, the operation and administration of grams for pupil transportation.

EDAD 654. Principles of Supervision (3)
A study of the purposes, principles, and techniques of educational supervision. Emphasis o instructional aspects of school administration.

EDAD 655. The Elementary School Principal (3)
An analysis of the role of the principal in the modern elementary school.

EDAD 656. The Secondary School Principal (3)
An analysis of the role of the principal in the modern secondary school.

EDAD 657. The Middle School Principal (3)
An analysis of the role of the principal in the modern middle school.

EDAD 660. School and Community Relations (3)
An examination of school-community relationships. Special emphasis on leadership r operational modes, communication with regard to public school relations.

EDAD 676. Research and Seminar in Elementary Education (3)
Designed to acquaint the student with recent research and to identify trends, innovations, problems in elementary education. The student works in a practicum setting for 25 clock h under a qualified administrator, reports on recognized research studies, keeps a lo practicum experiences, and participates in scheduled seminars.

EDAD 677. Research and Seminar in the Middle School (3)
Designed to acquaint the student with recent research and to identify trends, innovations, problems in middle school education. The student works in a practicum setting for 25 c hours under a qualified administrator, reports on recognized research studies, keeps a lc practicum experiences, and participates in scheduled seminars.

EDAD 678. Research and Seminar in Secondary Education (3)
Designed to acquaint the student with recent research and to identify trends, innovations, problems in secondary education. The student works in a practicum setting for 25 clock h under a qualified administrator, reports on recognized research studies, keeps a lo practicum experiences, and participates in scheduled seminars.

EDAD 680. Research and Seminar in Supervision (3)
Designed to acquaint the student with recent research and to identify trends, innovations, problems in supervision. The student works in a practicum setting for 25 clock hours unc qualified administrator, reports on recognized research studies, keeps a log of practic experiences, and participates in scheduled seminars.

ENGLISH

ENGL 401G. Modern Grammar (3)
An intensive review of traditional grammar in combination with selected material f structuralist views of linguistic analysis and theories of transformational grammar. Atten is paid to the practical application of each. Offered in even numbered years only.

ENGL 402G. Advanced Composition (3)
For the student who wishes to become a more competent writer. Research papers, fac narratives, argumentation, and "creative" writing are assigned according to the needs aptitude of the student. Offered in even numbered years only.

GL 419G. Composition for Teachers (3)
iew of basic elements of composition with regular writing assignments in both expository argumentative modes. Techniques of marking and evaluation of student papers. Research niques, a methodology for teaching students to develop a research paper and practical lication of the methodology through the assignment of a research paper as an integral part ıe course itself. (On demand.)

GL 421G. History of the English Language (3)
udy of the origins and development of the English language from Anglo-Saxon times to the ent. Supplementary readings in early and medieval English history with emphasis on the cts of historical events on language change. Offered in odd numbered years only.

GL 431G. Contemporary American Literature: Fiction (3)
itical and historical study of the major American fiction (short stories and novels) since 1940, inning with Richard Wright and J.D. Salinger and proceeding through the experimental on of the present time.

GL 451G. Modern Poetry (3)
erican and British poetry, with consideration of ways of reading, criticizing, and writing e in this century. Offered in odd numbered years only.

GL 521. Advanced Study of English Literature, 500-1700 (3)
nsive study of some phase of English literature within this period. This course may be taken re than once providing that the course content is different. The class schedule will designate specific content covered.

GL 522. Advanced Study of English Literature, 1700-Present (3)
nsive study of some phase of English literature within this period. This course may be taken re than once providing that the course content is different. The class schedule will designate specific content covered.

GL 541. Advanced Study of American Literature, 1600-1860 (3)
nsive study of some phase of American literature within this period. This course may be en more than once providing that the course content is different. The class schedule will ignate the specific content covered.

GL 542. Advanced Study of American Literature, 1860-Present (3)
nsive study of some phase of American literature within this period. This course may be en more than once providing that the course content is different. The class schedule will ignate the specific content covered.

GL 572. Special Topics in Literature (3)
nsive study of a literary topic of special interest to secondary teachers. This course may be en more than once providing that the course content is different. The class schedule will ignate the specific content covered.

GL 595. Independent Study in English (3)
ependent study of research on an approved topic. May be repeated for credit.

GL 599. Master's Thesis (6)

ENVIRONMENTAL STUDIES

ENVS 469G. The Appalachian Environment (3)
Conservation of natural resources including soil, water, wildlife, and forests as interre
components of the environment. Current problems relating to the environmental quality
Appalachian region. Prerequisites: Two courses in environmental studies or biology and
knowledge of economics. Offered in Summer and on demand.

ENVS 550. Environmental Education Strategies (3)
A two-week workshop designed to foster a greater understanding of our environment thr
a combination of classroom and direct first-hand experiences. Conducted in cooperation
the USDA Forest Service and the Kentucky Division of Forestry. Offered in Summer onl

FINE ARTS

FNAT 501. Fine Arts in the Elementary School (3)
Fine Arts in the Elementary School is designed to enhance the teaching of Music, Art, and D
in the Elementary School.

GENERAL SCIENCE

GNSC 401G. Science: Concepts, Processes, and Inquiry (3)
The student will examine the fundamental science concepts as identified by the Ken
curriculum framework. Using Materials from various innovative science programs
basic content of science will be reviewed. The inquiry and constructivist approach
teaching science will be stressed. Information on learning theories and the tea
approaches that support those theories also is presented.

GNSC 525. Science for the Elementary Grades (3)
Application of modern learning theories and psychological foundations to the teachi
science in the elementary grades. Includes discussion of trends in science education, ap
tions of research to teaching, and special problems that occur in schools.

GNSC 561. Topics in Physical Science (3)
Enrichment and updating elementary and middle grade school teachers on selected top
astronomy, physical science and modern physics. Selected science journal off-prints w
reviewed. The course will include several lecture demonstrations and hands-on exper
with some laboratory equipment.

GNSC 584. Plate Tectonics (3)
A theory which professional geologists scoffed at only a few years ago has revolutionized
science in the last two decades. In this combination lecture/laboratory course, students
construct models and analyze actual data to reconstruct the historical development o
important theory.

GNSC 595. Research Investigations (3)
An independent research problem in which the student must demonstrate his ability to em
the scientific method in carrying out an original scientific investigation. A typewritten
bound manuscript will be required. An examination may or may not be given, dependin
the nature of the problem selected. Prerequisite: Permission of the instructor and approval
head of the department.

GNSC 599. Master's Thesis (6)

HEALTH

TH 451G. School and Community Health (3)
eals the relationship needed between the school and community to promote the total health ıe population. Speakers are secured from official agencies, voluntary agencies, professional ncies, sponsored agencies, and other colleges. Small groups are utilized for discussion, field s, and study through audio-visual aids. A variety of health areas are covered, including rition, physical fitness, drugs, alcohol, tobacco, human sexuality, and emotional health.

TH 475G. Critical Areas in Health (3)
cific health problems confronting society today, with particular reference to secondary-age dents.

TH 551. Readings in Health (3)
ɔurse enabling the students to research the literature in the area of health, not only to increase ic knowledge, but to become acquainted with current trends and issues.

TH 582. Safety Education (3)
:ident problems in the home, in the school, at work, and on the highways are discussed with purpose of being able to influence those who teach by preparing them in the various areas safety. Groups specialized in a variety of safety areas, such as National Safety Council, ıerican Red Cross, Bureau of Mines, and Kentucky State Police will be utilized.

TH 595. Independent Study (3)
ependent study in the field of health. May include practical field experiences.

TH 599. Master's Thesis (6)

HISTORY

ST 421G. The Middle Period (1821-1850) (3)
etailed examination of Jackson, politics, and the culture of the period. The course emphasizes Age as one of chaos, and considers conflicting interpretations of the period.

ST 446G. History of Russia (3)
ssia history since 1689.

ST 470G. Twentieth Century America (3)
ected topics on the Nation's history since 1900.

ST 475G. Special Topics in History (3)
signed for teachers in special areas of interest.

ST 521. History and Culture of Appalachia (3)
s course focuses primarily on the impact of industrialization and modernization in Souther palachia since the Civil War. It emphasizes the great diversity of historical and cultural ɔerience within the Region.

ST 531. The American Revolutionary Era (3)
e background of the revolution. The Continental Congress and the Confederation at work; ernal problems and strife; military and naval events; foreign relations; the road to final ependence and peace. Offered in even numbered years only.

HIST 551. Civil War and Reconstruction (3)
A study of the Civil War and Reconstruction period in American history.

HIST 561.
Directed readings and class discussion on topics in world history since 1789.

HIST 595. Independent Study (3)

HIST 599. Master's Thesis (6)

MATHEMATICS

MATH 531. Topics in Modern Math for Elementary Teachers (3)
A study from a historical and theoretical viewpoint of topics in mathematics taught elementary grades. Number systems, number theory, real numbers, logic, geometry, probab ity and statistics. Credit not granted to students who have completed both MATH 203 and 2 Offered in Summer only.

MATH 532. Modern Math Laboratory (3)
An active involvement in laboratory experiments with multibase blocks, sets, Cuisenaire ro geoboards, etc; development of skills in the production and use of teacher-made materi problem solving techniques. Prerequisites: MATH 531 or MATH 203-204 are recommend Offered in Summer only.

MATH 595. Independent Study (3)

MUSIC

MUSC 520. Special Topics in Music History and Literature (3)
Intensive study and research pertaining to a selected composer, genre, or historical period.

MUSC 570. History and Literature of the Wind Band (3)
A survey of the history and development of wind band instrumentation and literature from t 18th century to the present.

MUSC 572. Advanced Choral Conducting (3)
Advanced study and drill in the areas of conducting and rehearsal technique, voice-building choirs, score study, and performance practice.

MUSC 573. Survey of Choral Literature (3)
A study of works representing the major genres of choral music from the Renaissance to t present.

MUSC 574. Advanced Instrumental Conducting (3)
A practical study of instrumental conducting techniques, with emphasis on physical techniq score study, rehearsal procedure, and stylistic interpretation. Prerequisite: Undergradu instrumental conducting or permission of the instructor.

MUSC 575. Computer Application in Music (CAIM) (3)
A survey of equipment and software available for computer assisted instruction in the pub schools, including programming techniques for creating locally focused instructional modul

JSC 595. Independent Study (3)

JSC 599. Master's Thesis (6)

PHYSICAL EDUCATION

ED 425G. Psychological Foundations of Sport and Human Performance (3)
:ombination undergraduate/graduate level course exploring the field of Applied Sport 'chology. The objective of the course is to enable students to comprehend and apply available ɔrmation in order to enhance their effectiveness as coaches and teachers.

ED 501. Health, Nutrition, and Physical Education (3)
omprehensive course involving issues, concerns, and program design in health, nutrition, l physical education at the elementary school level.

ED 525. Motor Learning in Physical Education (3)
in-depth study of motor learning theories, principles, and applications for physical educa- ı programs.

ED 550. Seminar in Physical Education (3)
advanced course of selected topics of interest in the field of Physical Education.

IED 595. Independent Study (3)

IED 599. Master's Thesis (6)

PHYSICS

YS 401G. Principles of Modern Physics (3)
nentary concepts of quantum mechanics. Selected topics in atomic and nuclear physics. 'equisites: Two semesters of calculus.

YS 411G. Classical Mechanics (3)
secondary teachers of physics. Motion of a particle; systems of particles and rigid bodies; ving coordinate systems; Lagrange's equations; small oscillations. Prerequisite: Three ıester of calculus.

YS 600. Research Investigations (3)
introduction to research in which the student must demonstrate an ability to use the ntific method by conducting an original scientific investigation. A typewritten report will equired. An examination may or may not be given depending on the nature of the problem cted. Prerequisite: Permission of instructor and approval of the Division Chair and Dean of duate Academic Affairs.

PSYCHOLOGY

'H 402G. Counseling Theories and Techniques (3)
ic theories, types, and techniques of counseling. Practice in individual and group niques of interviewing.

'H 410G. Psychology of Addictions. (3)
or emphasis is on factors determining the development of addictions, including siological, emotional, cognitive, and behavioral dimensions of the addictive process. ɔ emphasizes intervention and treatment strategies for the various types of chemical endency and substance abuse.

'H 460G. Theories of Personality (3)
ure of personality structure and dynamics. Classical psychoanalysis, social psychologi- and stimulus-response theories included.

PSYH 461G. History and Systems of Psychology (3)
Origins of psychological thought within science and philosophy, tracing the developme systems and theories with German, British and American psychology.

PSYH 470G. Theories of Learning (3)
Basic fundamentals of learning theory as formulated by such theorists as Thorndike, Pa Guthrie, Skinner, and Hull. Attention is given to the empirical support of various theories recent developments in cognitive psychology.

PSYH 525. Psychology of Reading (3)
Theory and applications of learning principles as applied to the reading processes. M emphasis relates to respondent, operant, and perceptual learning paradigms. Offered in numbered years only.

PSYH 565. Psychology of Exceptional Children (3)
Survey course on children with special educational needs. The nature, cause and interve of exceptionality.

PSYH 595. Independent Study (3)

PSYH 599. Master's Thesis (6)

PSYH 600. Advanced Human Development (3)
Psychological development from birth to maturity. Emphasis upon the principal concepts problems in the development of the individual. Exceptionality and multicultural differenc considered.

PSYH 640. Group Processes (3)
A study of theory and practice in group dynamics. The process and implications of g processes, group counseling, and the human potentiality are explored.

PSYH 650. Advanced Educational Psychology (3)
The study of advanced psychological concepts and principles as applied to classroom man ment and student learning. Major emphasis is given to the translation of theoretical founda of psychological knowledge to practical classroom applications. Behavioral, cognitive, humanistic perspectives are explored in relation to teacher-student relationships.

SOCIOLOGY

SOCI 421G. Rural and Urban Sociology (3)
Comparative and interrelated study of urban and rural life considering the physical, ins tional, social and economic factors of modern life in cities and in the countryside.

SOCI 433G. Social Change (3)
Introduces students to the problems of development and change. Examples will be drawn Third World models of development, nationalism, imperialism, environmentalism, and hu rights. The course in interdisciplinary, with emphasis on historical, economic, environme and sociological aspects.

SOCI 460G. Sociological Theory (3)
The major theories which have proved useful in investigating the nature of society are exam as cultural products, ideologies, and scientific models. Special attention is given to major fig

h as Comte, Durkheim, Weber, Merton, C. Wright Mills, White, and Sorokin in the ergency and convergence of their theoretical development. Lecture and discussion in a inar setting.

CI 464G. Sociology of Deviance and Criminology (3)
is course will develop an understanding of the social definitions and implications of iance. Various types of deviant behavior and relevant theories of society will be lressed.

CI 511. Educational Sociology (3)
analysis of schooling and education in a social, historic, and economic perspective. ecial attention is given to the socialization of the child within and outside the school in it of the dominant culture forces in Western Society.

CI 595. Independent Study (3)

CI 599. Master's Thesis (6)

SPECIAL EDUCATION

ED 401G. Early Childhood Education for Exceptional Learners (3)
is course is designed to provide a general overview of current models of education for abled infants and preschoolers in self-contained, mainstreamed or home setting, and pre-ioolers

ED 403G. Career Education for Exceptional Learners (3)
is course provides students with methods and materials for infusing career education for mildly disabled (K-12).

ED 405G. Programs and Services for Exceptional Learners (3)
is course is designed to help students review various types of services and program ivery systems available to exceptional students. Current legal requirements and ethical isiderations involved with specific decisions of placement and programs are explored.

ED 501. Survey of Exceptional Learners (3)
is survey course is designed to acquaint students with all types of exceptional children luding the physically and mentally disabled, socially and emotionally disturbed, and the ted and talented as well as methods of adapting education to meet the needs of these ldren.

ED 503. Behavior Management for Exceptional Learners (3)
is course will help students study and apply theories and procedures currently utilized in field of special education for the educational management of students with emotion/be-viorial disabilities. Prerequisite: SPED 501.

ED 511. Assessment Procedures for Exceptional Learners (3)
is course will help students learn and apply assessment procedures for children with rning disorders in academic and social behavior areas. Emphasis will be placed on the of various informal and formal assessment methods. Prerequisites: SPED 501 and 503.

ED 513. Diagnostic and Prescriptive Teaching (3)
is course is designed to help students study educational procedures designed to develop lls in diagnosing and prescribing educational strategies for children with learning and haviorial problems. Prerequisites: SPED 501 and 503.

SPED 515. Instructional Procedures for LBD Learners (3)
This course will present an overview of instructional strategies and teaching methods addition to providing experiences in planning and implementing individualized progra for children who exhibit learning and behaviorial problems.

SPED 517. Practicum in Special Education (3)
This course is devoted to field experiences in which students will develop skills providing resource help to exceptional learners in resource rooms or integrated classroon Prerequisites: SPED 501, 503, 511, and 513.

SPED 521. Advanced Practicum (6)
Practical experiences in working directly with exceptional children, special educati teachers and supportive personnel in school and service centers under the supervision of experienced special education teacher. Application for this course is to be made a semes in advance. This course is to be taken during the last six hours of the program. This cour is required for all candidates for LBD certification but do not have three years full tir teaching experience with LBD students.

SPED 599. Thesis (6)

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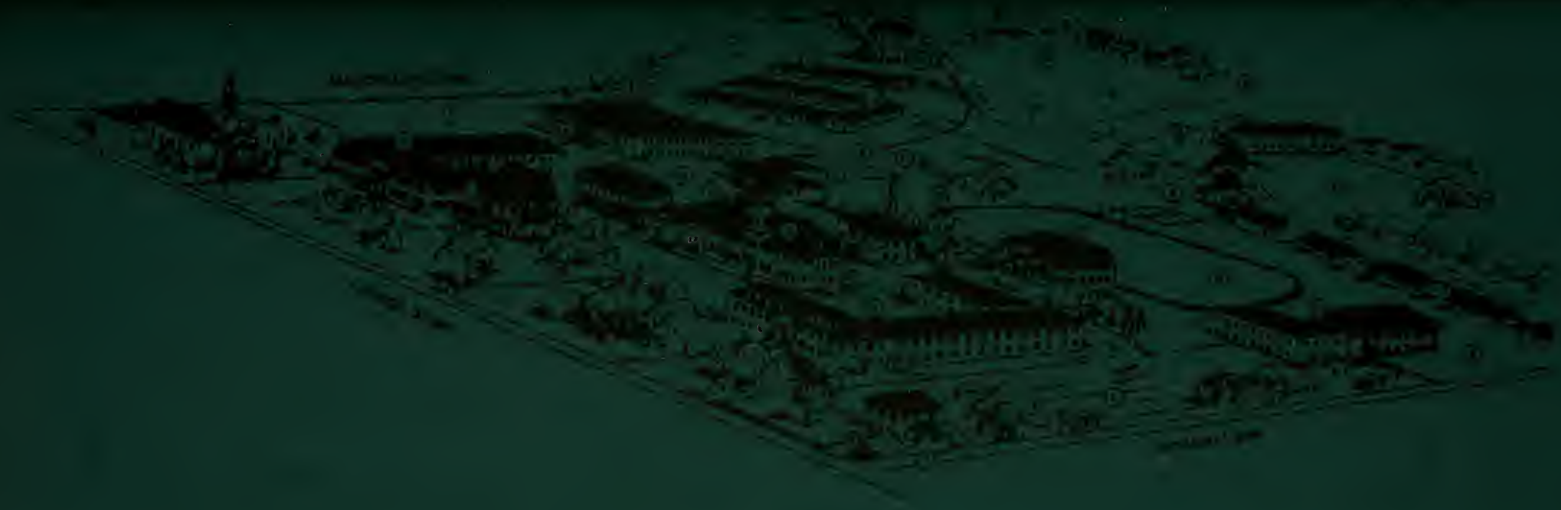

P. Parking
1. Baldwin Place, President's Residence
2. Stevenson Hall, Men's Residence Hall
3. Commonal Hall Historic Landmark, Classroom Building
4. Aargaff E. Weeks/Milton H. Townsend Memorial Library & Annex
5. Speed Hall, Administration Building
6. Platteo Hall, Women's Residence Hall
7. Conway Boatman Chapel
8. Fine Arts Building
9. Tennis Courts
10. Soldiers and Sailors Instructional Center
11. Campus Port Center/Data Processing Center
12. Partridge Student Center & Mitchell Cafeteria
13. Colonel Harland Sanders Bowling Field
14. Religious Life Center
15. Physical Education Building, Gyms and Swimming Pool
16. College Courts, Married Students' Lots
17. College Courts, Faculty and Staff Apts
18. Lakeside Hall, Men's Residence Hall
19. Lakeside Social Sciences Center
20. College Park Centre, Faculty & Staff Residences
21. Mahlon Miller Science Center
22. Aitch Neu Football Field
23. Football Offices/Weight Training Facility
24. Maintenance Building & Shops
25. College and Community Recreation Park
26. Jack C. & Joanna Pastor Athletic Complex

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